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Agricultural Marketing Service

Livestock and Seed Division

Items of Interest in Seed Control

Spring 1996

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Seed Regulatory and Testing Branch Building 506, BARC-East Beltsville, Maryland 20705-2350 301-504-9430 items of interest in Seed Control

Spring 1996

TRUENESS-TO-VARIETY TESTING FOR 1996

The Seed Regulatory and Testing Branch (SRTB) announces trueness-to-variety (TTV) field testing for 1996. We will be testing at seven locations this year. The crops and State locations are given in the following table. We request that State seed control personnel send official samples to us from now until the cut-off dates shown for each crop. We will test garden seed packets. Often, two or three garden seed packets of each lot are needed for the minimum sample sizes shown in the table. Please send samples as early as possible to give us the maximum time to organize the tests. Thank you for your assistance.

As in the past, the SRTB is ordering samples of garden seed packets from catalog sales companies, and the SRTB will also sample seed in the District of Columbia (DC). Portions of the mail order and DC samples are tested for germination prior to TTV test.

We just concluded analyzing the results of the autumn trials of brussels sprouts and cauliflower which were conducted at Southern University. The winter onion and lettuce trials being conducted at Gainesville, FL, will be completed soon.

Note: At this time, we would also like to announce that spring small grain samples will be grown in South Dakota in early 1997. This early announcement will allow State seed control officials in northern states, if they desire, to collect samples this year for entry in the 1997 spring small grain TTV trials. Crops and sample sizes are shown in the table. For TTV questions contact Al Burgoon, Variety Specialist (301-504-8089).

TEST SITES AND CROPS FOR 1996 AND EARLY 1997

<u>Site</u> Florida	Crop Celery Carrot Radish	Minimum Sample Size 0.2 G 0.5 G 5.0 G	Cut-Off Date May 1 August 1 August 1
Louisiana	Squash (bush-type)	20 G	April 15
Maryland	Tomato Tall Fescue (fall)	1 G 1 G	May 15 August 1
Minnesota	Soybean	50 G	May 15
Oklahoma	Sorghum-Sudangrass Millet	10 G 2 G	May 15 May 15
Texas	Soybean Squash (vine-type)	50 G 20 G	May 15 April 15
Virginia	Soybean	50 G	May 15
South Dakota (1997)	Oat (spring-type) Wheat (spring-type) Barley (spring-type)	25 G 25 G 25 G	April 15, 1997 April 15, 1997 April 15, 1997

FEDERAL TRAINING FOR SEED ANALYSTS

The SRTB is conducting a Federal Seed School in Oklahoma City, May 6-10, 1996. The seed school is being hosted by Roger Osburn, Seed Laboratory Supervisor, Oklahoma Department of Agriculture.

The SRTB regularly conducts training for seed analysts, as well as for seed inspectors, as part of its function to promote uniformity in seed testing under the Federal Seed Act (FSA). Federal Seed Schools are usually held at the invitation of a state seed laboratory or state seed control official. Seed analysts from nearby state seed laboratories and private-industry laboratories are invited to attend. Personnel from the SRTB's Testing Section are responsible for providing training materials for teaching the seed school.

At this time, we have received no formal invitations to hold a Federal Seed School in 1997. Because advance planning is essential for a successful seed school, initial arrangements are usually made a year or more in advance. State seed laboratories are encouraged to consider hosting a Federal Seed School. It provides the opportunity for seed analysts to update their training and compare techniques with others in the region. Anyone interested in hosting should contact Richard C. Payne, Testing Section Supervisor (301-504-8089). We will send guidelines that give details of the host laboratory's responsibilities and time lines.

TEST FOR HERBICIDE RESISTANT SOYBEANS

The SRTB is working to develop a laboratory test that can be used to identify soybean varieties that are resistant to sulfonylurea herbicides. Our goal is to develop a reliable test that is easy to conduct, simple to evaluate, and fits well with routine laboratory testing procedures.

We are evaluating several different testing procedures. Based on our preliminary data, the testing procedure that appears most promising involves planting soybean seeds between germination towels moistened with a 0.01 ppm herbicide solution. The seeds are placed in a row 2 inches from the top edge, on the bottom set of two towels, and covered with two more towels. The towels are rolled and placed in plastic bags. The seeds are planted in the manner described so that roots, epicotyls, and primary leaves can be easily evaluated for herbicide damage.

It is important to include a sample of both a known resistant variety and a susceptible variety in each test. In addition, it is helpful to include, for comparative purposes, a check of each sample planted in a set of towels that are moistened only with tap water.

On day 4 of the test, 100 ml of herbicide solution is added to each plastic bag containing four sets of towels. This is done to keep the towels and germinating seedlings from drying out.

On day 6 of the test, seedlings of susceptible varieties will have short, stunted primary roots with little evidence of secondary root growth. Seedlings of resistant varieties will have long primary roots with many secondary roots. By day 9 or 10 of the test, seedlings

of resistant varieties will have long roots (usually over 20 cm in length) with many well developed secondary roots, and elongated epicotyls with expanded primary leaves. Seedlings of susceptible varieties will have short roots (6 or 7 cm in length) with stunted secondary roots, slightly shortened hypocotyls, little (if any) epicotyl development, and stunted or undeveloped primary leaves.

Our data so far indicates that all resistant varieties may not have the same level of resistance. A small percentage of the seedlings of some resistant varieties may be susceptible.

Currently, we are conducting experiments to determine the effect that the number of hours of light per day has on the test results. In addition, we are conducting experiments to determine how long a prepared herbicide solution can be stored before it begins to lose its potency.

We plan to present a paper that describes the testing procedures and illustrates the test results at the 1996 Association of Official Seed Analysts/Society of Commercial Seed Technologist Meeting. Questions concerning this test may be directed to Richard C. Payne, Testing Section Supervisor (301-504-8089).

THE SRTB'S REGULATORY SECTION IS MOVING

Approximately May 9, 1996, the Regulatory Section will join the Testing Section in Building 306. This will be the first time, since the two formerly separate branches were combined in October 1982, that both sections have been housed in the same location. If there are any other changes after the move is completed, we will address them in the next issue. Meanwhile, please note the new address:

Seed Regulatory and Testing Branch
LS, AMS, U.S. Department of Agriculture
Room 209, Building 306, BARC-East
Beltsville, MD 20705-2325

RYEGRASS FLUORESCENCE LIST

This is the ryegrass fluorescence list from the National Grass Variety Review Board. The Board has added the perennial ryegrass varieties Blazer III, Calypso II, Lowgrow, Nobility, and Tonga:

Perennial	Percent	Perennial	Percent	Perennial	Percent
Ryegrass	Varietal	Ryegrass	Varietal	Ryegrass	Varietal
Variety Name	Fluorescence	Variety Name	Fluorescence	Variety Natoer	escence
89-90	2.15%	Gator	0.88%	Seville	0.33%
89-666 ¹	1.57%	Greenland	1.20%	Shining Star	0.10%
246	0.27%	Grimalda	2.00%	Stallion Select	2.37%
856	0.87%	Imagine 1	1.31%	Statesman	1.27%
Accent	0.56%	Koos 90-2 ¹	3.85%	Target	3.28%
Accolade	4.83%	Legacy	0.37%	Tonga	11.53%
Accord	4.08%	Lindsay	1.72%	Top Hat ¹	0.77%
Achiever	0.93%	Linn	5.00%	Topeka	2.34%
Advent	0.14%	Lowgrow	1.31%	Vantage	2.19%
Agresso	2.00%	Magic	1.21%	Wizard	2.57%
All Star	0.47%	Manhattan II	0.65%	Yorktown III	1.42%
Allaire II	1.15%	Morningstar	0.87%		
APM	0.59%	Mulligan	1.86%	Annual	Percent
Assure	0.72%	Navajo	0.37%	Ryegrass	Varietal
Bedford	1.40%	NightHawk	1.39%	Variety Name	Fluorescence
Blazer III	1.18%	Nobility	3.26%		A THE PROPERTY.
Boardwalk	2.72%	Nomad	1.03%	Florida 80	98.89%
Brightstar	1.79%	Nova	1.00%	Grazer	99.78%
Buccaneer	2.01%	Omni	0.51%	Jackson	98.80%
Caliente	0.74%	Pageant 1	2.22%	Marshall	96.00%
Calypso	1.29%	Palmer	1.04%	Rio ¹	98.97%
Calypso II	0.47%	Palmer II	1.51%	Surrey	98.91%
Cathedral	0.85%	Patriot II	0.42%	TAM 90	98.45%
Charisma	2.39%	Pegasus ¹	2.41%		
Cutter	1.65%	Pennant	0.50%		
Dandy	2.00%	Pleasure	1.42%	¹ Experimental	Designation
Delaware Dwarf	0.61%	PR8820	0.79%	and/or Variety	
Derby Supreme	2.85%	Prelude	1.72%		
Dillon	4.14%	Prelude II	2.25%		
Divine ¹	3.09%	Prizm	0.71%		
Edge	1.73%	Quickstart	0.18%		
Elegance	1.51%	Regency	0.99%		
Elf	0.75%	Repell	0.33%		
Elite	4.84%	Repell II	1.56%		
Envy	0.22%	Reveille	2.00%		
Equal	1.98%	Riviera	0.58%		
Evening Shade	1.17%	Rodeo II	2.47%		
Excel	1.53%	SR 4100	0.37%		
Express	1.00%	SR 4200	0.34%		
Fiesta II	1.14%	SS-33-DS ¹	3.10%		

FEDERAL SEED ACT CASES SETTLED

Listed below are cases settled under the FSA from January 1 to March 31, 1996. All cases were settled administratively. Under the administrative settlement procedure, the SRTB and the firms agreed to settle the cases for the amount specified with the firms neither admitting nor denying the charges:

- Dorsing Seeds, Inc., Nyssa, OR, has paid \$300 for a case involving one seed shipment.
 The alleged violations were false labeling as to the variety name and failure to keep
 required records. Seed regulatory officials in Maryland cooperated in the initial sampling
 and inspection.
- Great Western Seed Company, Albany, OR, has paid \$4500 for a case involving 13 seed shipments. The alleged violations, while not the same for all shipments were false labeling of pure seed, other crop, inert matter, the test date, and noxious-weed seeds; also, failure to label the presence of noxious-weed seeds, to keep required records, and to show required information for a seed component. Seed regulatory officials in Maryland, Pennsylvania, Texas, and Virginia cooperated in the initial sampling and inspection.
- Lesco, Inc., Rocky River, OH, has paid \$900 for a case involving four seed shipments.
 The alleged violations, while not the same for all shipments were false labeling of
 germination percentages, test date, and noxious-weed seeds, and failure to label the
 presence of noxious-weed seeds. Seed regulatory officials in Florida, Maryland, and
 Virginia cooperated in the initial sampling and inspection.
- Olean Seed Company, Olean, MO, has paid \$900 for a case involving four seed shipments. The alleged violations, while not the same for all shipments were false labeling of noxious-weed seeds, pure seed, and variety name; and failure to label the presence of noxious-weed seeds, to show required information for a seed component, and to keep required records. Seed regulatory officials in Kentucky and West Virginia cooperated in the initial sampling and inspection.
- Pickseed West, Inc., Tangent, OR, has paid \$1800 for a case involving four seed shipments. The alleged violations, while not the same for all shipments were false purity labeling; failure to label the presence of noxious-weed seeds, keep required records, and label the shipper's name and address or code; and shipping seed containing prohibited noxious-weed seeds. Seed regulatory officials in Maryland, Texas, and Virginia cooperated in the initial sampling and inspection.
- The Wetsel Seed Company, Inc., Harrisonburg, VA, has paid \$1200 for a case involving four seed shipments. The alleged violations, while not the same for all shipments were failure to label the presence of noxious-weed seeds, keep required records, and label the shipper's name and address or code, and false noxious-weed seed labeling. Seed regulatory officials in Maryland cooperated in the initial sampling and inspection.

List of Plant Variety Protection Certificates



TITLE 5 (NO. OF GEN.)				Y (2)														Y (2)				Y (2)			(0) \		Y (2)	•				
APPLICANT	Agripro Seeds, Inc.	Agripro Seeds, Inc. Agripro Seeds, Inc.	Plant Genetics, Inc.		and USDA-ARS	Hi-Bred	International, Inc.	W-L Research, Inc.	Thaddeus H. Busbice	Agripro Seeds, Inc.	p King C	Seeds,	Seeds,	Agripro Seeds, Inc.	Seeds,]	Plant Genetics, Inc.	Agripro Seeds, Inc.	Agripro Seeds, Inc.	Forage Seeds	International	FFR Cooperative	Cornell University	Agricultural	Experiment Station Vieta Research	Dairyland Rood	Company, Inc.	Dairyland Seed	Company, Inc.	Agripro Seeds, Inc.	Cornell University	Agricultural	Experiment Station
KIND VARIETY	ALFALFA Apollo	Apollo II Arrow	Arlas	Baker	α () ()	Capital		Chief	Cimarron VR	Citation	Crockett	Dart	Diamond	Endure	Expo	Flint	Granada	GT-13R Plus	Hasawi +		Hi-Phy	Honeoye		T.egend	With party and a second		Magnum III		Maverick	Mohawk		
TITLE 5 (NO. OF GEN.)																														Y (*)		
APPLICANT	Pioneer Hi-Bred	International, Inc. Pioneer Hi-Bred	International, Inc. Pioneer Hi-Bred	International, Inc. Pioneer Hi-Bred	International, Inc.	International, Inc.		International, Inc. Pioneer Hi-Bred	Pioneer Hi-Bred	International, Inc.				International, Inc.		International, Inc.				International, Inc.		International, Inc.	_	Pioneer Hi-Bred	International, Inc.	O	ity of (Research		United AgriSeeds, Inc.	\vdash	Agripro Seeds, Inc.
KIND VARIETY	ALFALFA 5151	5246	5252	5262	5311	1	5331	5333	5364		5373	((((((((((((((((((((5432	•	5444		5454		54.72	000	3663	7715		5888		Advantage	Alfagraze			Allegiance	Allstar	Answer

^(*) No limit to the number of generations of certified seed beyond breeders seed.

TITLE 5 (NO. OF GEN.)	¥ (*)	Y (*) Y (2)		Y (2) Y (2)		Y (2)	Y (3)	Y (3)	Y (3)	Y (3)	Y (3)	Y (3)
T APPLICANT	W-L Research, Inc. W-L Research, Inc. W-L Research, Inc. W-L Research, Inc.	Research, raska Agric Experiment and USDA-AR nt Genetics	NK Lawn and Garden Company	Big Heart Seed Tom G. Kurupas Farming The Regents of the University of	California W. Atlee Burpee Company		Northrup King Company	Cebeco Zaden B.V. Busch Agricultural Resources, Inc.	Busch Agricultural Resources, Inc.	Busch Agricultural Resources, Inc.	Busch Agricultural Resources, Inc.	
KIND VARIETY	ALFALFA WL 322 HQ WL 457 WL 516 WL 525 HO	605 angle rk	ALKALIGRASS, WEEPING Fults ARTICHOKE	Big Heart XR-1 Emerald Imperial Star	ASTER, CHINA Pot 'N Patio Violet Blue BAHIAGRASS		400 401 409 425 560	Apex B1201	B1202	B1203	B1215	B1601
TITLE 5 (NO. OF GEN.)	Y (2)	Y (2)	Y (2)	Y (2)	Y (2) Y (2)				Y (2)	Y (*)		¥ (*)
T APPLICANT	Northrup King Company Minnesota Agricultural Experiment Station and USDA-ARS	Agripro Seeds, Inc. Agripro Seeds, Inc. Cornell University Agricultural Experiment Station	Cornell University Agricultural Experiment Station W-L Research, Inc.	Crop Research Division / New Zealand DSIR Kansas Agricultural Experiment Station	United AgriSeeds, Inc. Agripro Seeds, Inc. Cornell University Agricultural Experiment Station	Northrup King Company Northrup King Company	Plant Genetics, Inc. S&W Seed Company Agripro Seeds, Inc. Agripro Seeds, Inc. Plant Genetics, Inc.	Northrup King Company Agripro Seeds, Inc. Plant Genetics, Inc.	Michigan State University	W-L Research, Inc. W-L Research, Inc.		Research,
KIND VARIETY	ALFALFA MultiKing 1 Nitro	Nugget Olympic Oneida	Oneida VR	Riley	Salute Sapphire Saranac AR	Spredor 2 Spredor 3	Sutter SW 14 Thunder Trident Vector	Viking 1 Voris A77 Vortex	Webfoot	WL 225 WL 315	WL 316 WL 317	

^(*) No limit to the number of generations of certified seed beyond breeders seed.

TITLE 5 (NO. OF	GEN.)		Y (2)	Y (3)		(*) ^				Y (3)		Y (3)		Y (3)		Y (3)	Y (2)			Y (3)			Y (3)	Y (3)	Y (3)	`	Y (3)	Y (3)	,	Y (3)		Y (3)			¥ (3)	¥ (3)
	APPLICANT		Adolph Coors Brewing	Agripro Seeds, Inc.	Farmers Marketing	D.J. van der Have B.V.			Adolph Coors Brewing	Arizona Plant	Breeders, Inc.	()	Experiment Station		reconique, Inc.	Virginia Agricultural Experiment Station	Pennsylvania	Agricultural	Experiment Station	Pennsylvania	Agricultural	Experiment Station	D.J. van der Have B.V.	Germain's, Inc.	Busch Agricultural	Resources, Inc.	Minnesota Agricultural Evneriment Station	Utah Agricultural	Experiment Station	Minnesota Agricultural	Stat	Plant Breeders 1, Inc.		Plant Breeders 1, Inc.	D.J. van der Have B.V.	Minnesota Agricultural
KIND	VARIETY	BARLEY	Idagold	Lindy	Max	Menuet	Merlin		Moravian 14	Mucho		Nomini		Onda		Pamunkey	Pennbar 66			Pennco			Piston	Poco	Premier		Kobust	Rollo		Royal		Selway	Semira	Seven	Spirit	Stander
TITLE 5 (NO. OF	GEN.)		Y (3)	Y (3)	V (3)				Y (3)	Y (3)	,	Y (3)	Y (3)	Y (2)	_ `	к (3)	Y (3)		Y (3)	Y (2)	,	Y (2)			(*)		(c)	Y (3)		Y (3)	Y (3)		X (*)		Y (3)	
	APPLICANT		Busch Agricultural Resources, Inc.	it	Resources, Inc.	Resources, Inc.	T	Resources, Inc.	Busch Agricultural Resources, Inc.	Ţ	Resources, Inc.	Cebeco Zaden B.V.		P. Thomas Wymore	District Seeds, Ille.	busch Agricultural Resources, Inc.	Sharpes International	Seeds Limited	MMG Agriseed	. —	Experiment Station	_	Stat	Plant Breeders 1, Inc.	Western Plant	Sharned Internal	Sharpes Incernational Seeds Limited	Busch Agricultural	Resources, Inc.	Cebeco Zaden B.V.	· H	Experiment Station	Ψ.		Adolph Coors Brewing	company
	VARIETY		B1602	B1603	B1614		B2027		B2601	B2912		Bellona	Вігка	bounty Bridger-82) (1) (1) (2) (3) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4	Tadimo	Camargue		Camelot	Chilton	1	cnopper		Citation Citation	Columbia			Duel		Efron	EXCEL		Flesta	(פשובווט	

(*) No limit to the number of generations of certified seed beyond breeders seed.

Experiment Station

TITLE 5 (NO. OF GEN.)		Y (2)		(3) (5) K K K	Y (2)	Y (3)
T APPLICANT	National Seed Development Organization Ltd. Rogers Brothers Seed Company Rogers NK Seed Company Asgrow Seed Company Rogers Brothers Seed Company	Colorado State University Michigan State University Gen-Tec Seeds, Limited		Gentec, Inc. Gentec, Inc. Rogers NK Seed Company Rogers NK Seed Company Wilbur-Ellis Company Rogers NK Seed Company Asgrow Seed Company Rogers Brothers Seed	Leslie L. Dean Rogers NK Seed Company Rogers Brothers Seed Company Rogers NK Seed Company	Nebraska Agricultural Experiment Station Asgrow Seed Company Rogers Brothers Seed Company Asgrow Seed Company Sacramento Valley Milling, Inc.
KIND VARIETY	Albion Amber Auburn Avanti Beryl	Bill Z Blackhawk Blackjack	C-20 Camelot Cinnabar	Cran 09 Crestwood D81126 D83043 Ebony Ember Etna Felspar	Fiesta Pinto Flint Foxfire Garnet	Harris Horizon Ivory Lark Lassen
TITLE 5 (NO. OF GEN.)	Y (3) Y (3) Y (2)		(* (* * * * * * * * * * * * * * * * * *	(* (* (* (* (* (* (* (* (* (* (* (* (* ((*) X	Y (2)
APPLICANT	Virginia Agricultural Experiment Station Sunderman Breeding Inc. Sunderman Breeding Inc. Texas Agricultural Experiment Station	Agripro Seeds, Inc. Booker Seeds Limited Svalof AB Utah Agricultural Experiment Station	Western Plant Breeders, Inc. Western Plant Breeders, Inc.	Western Flant Breeders, Inc. Western Plant Breeders, Inc. Western Plant Breeders, Inc. Western Plant Breeders, Inc.	Breeders, Inc. Western Plant Breeders, Inc. W. Atlee Burpee Company	Rogers NK Seed Company Rogers Brothers Seed Company Agri Sales, Inc. and Gentec, Inc.
KIND VARIETY	BARLEY Starling Sunstar Double Sunstar Prince Tambar 500			WestBred Gustoe WestBred Medallion WestBred Waxbar	Winchester BASIL Purple Ruffles	BEAN, FIELD Agassiz Agate Agri-I

^(*) No limit to the number of generations of certified seed beyond breeders seed.

TITLE 5 (NO. OF APPLICANT GEN.)	Gen-Tec Seeds, Limited Y (2) Asgrow Seed Company Roders Brothers Seed	Company Asgrow Seed Company van Waveren	Pflanzenzucht GmbH. Asgrow Seed Company Rogers Seed Company van Waveren	Pflanzenzucht GmbH. Asgrow Seed Company Asgrow Seed Company	Vilmorin, S.A. Asgrow Seed Company Gallatin Valley Seed Company	Seed Ceed Ceed Ceed	Company Asgrow Seed Company Rogers Brothers Seed Company Clause S.A.	_	Ferry-Morse Seed Company Asgrow Seed Company Rogers Brothers Seed
KIND VARIETY	BEAN, FIELD Vista Wesland Zircon	BEAN, GARDEN Acclaim Accord	Allure Ambassador Amity	Anchor Applause Atlantic	Axel B169 BBL 109	BBL 110 BBL 156 Beeline	Biscayne Blazer Blue Duet	Blue Ridge Bluepak	Bounty Brio Broker's Choice
TITLE 5 (NO. OF GEN.)	Y (2)	Y (2)	Y (3)	K (3) X (3)	Y (2)	Y (2)	Y (2) Y (3)	Y (2)	Y (3) Y (3) Y (3)
T APPLICANT	Rogers NK Seed Company Michigan State University	Asgrow Seed Company Cornell University Agricultural Experiment Station	Asgrow Seed Company Colorado State University Rogers Brothers Seed	Company Wilbur-Ellis Company Gen-Tec Seeds, Limited Wilbur-Ellis Company	Rogers NK Seed Company Asgrow Seed Company Ronald D. and Leta L. Seacat	Rogers Brothers Seed Company Rogers NK Seed Company Michigan State	Wilbur-Ellis Company Rogers Brothers Seed Company University of Nebraska Agricultural	Asgrow Seed Company Rogers Brothers Seed Company Michigan State	University of Idaho University of Idaho University of Idaho University of Idaho
KIND VARIETY	BEAN, FIELD Marquis Mayflower	Midland	Northland Olathe Opal	Pilgrim Prize Pulsar	Rocket RS 101	Sapphire Schooner Sierra	Snowball Spinel Starlight	Stinger Topaz Tuscola	UI 537 UI 686 UI 722 UI 906

^(*) No limit to the number of generations of certified seed beyond breeders seed.

TITLE 5 (NO. OF GEN.)	o byd byd	ξt
APPLICANT	Bakker Brothers of Idaho, Inc. van Waveren Pflanzenzucht GmbH. Rogers Brothers Seed Company Wilbur-Ellis Company Harris Moran Seed Company Asgrow Seed Company Asgrow Seed Company Pflanzenzucht GmbH. Rogers Brothers Seed Company Rogers Brothers Seed Company Rogers Brothers Seed Company	Nunnems Zaden B.V. Royal Sluis B.V. Ferry-Morse Seed Company Asgrow Seed Company Asgrow Seed Company Royal Sluis B.V. Gallatin Valley Seed Company Rogers NK Seed Company Asgrow Seed Company Rogers Brothers Seed Company Rogers Brothers Seed Company Royal Sluis B.V. Ferry-Morse Seed Company Royal Sluis B.V. Ferry-Morse Seed
KIND VARIETY	BEAN, GARDEN Early Sunray Earlybird Empress Endurance Envy Epoch Espada Evergreen Evergreen EZ Harvest	Flamata Flatbush Flaveol Flevoro Flo Frenchy Galagold Gold Mine Golden Sands Goldkist Goldkist Hialeah
TITLE 5 (NO. OF GEN.)	row See ers Bro Company ser See Inc. ers NK ers NK cry-Mors Company ers NK ry-Mors Company ers Bro Company cry-Mors	Del Monte Corporation
KIND VARIETY	ARDEN nco ly h Ken h Rom sar ctic st ssvil by	DMC 04-01 DMC 04-14 DMC 04-19 DMC 04-34 DMC 04-34 DMC 04-88 DMC 04-88 DMC 04-94 DMC 06-23 DMC 06-23 DMC 06-24 DMC 08-61 DMC 08-61

(*) No limit to the number of generations of certified seed beyond breeders seed.

TITLE 5 (NO. OF GEN.)										
APPLICANT	Asgrow Seed Company Asgrow Seed Company Ferry-Morse Seed		Rogers Brothers Seed Company Harris Moran Seed	Company Harris Moran Seed Company Ferry-Morse Seed	d	Ferry-Morse Seed Company Harris Moran Seed	Clause S.A. Asgrow Seed Company Rogers NK Seed Company Rogers Brothers Seed	Rogers Brothers Seed Company Ferry-Morse Seed	Ferry-Morse Seed Company Musser Seed Company, Inc. Gallatin Valley Seed	Company Royal Sluis B.V. Asgrow Seed Company Ferry-Morse Seed Company
KIND VARIETY	BEAN, GARDEN Pirate Podsquad Primo	Producer	Profit Maker Prosperity	Quest	Roma II	Satin	Score Sentry Seville Shamrock	Shannon	Slenderella Slenderwax Slimgym	Smilo Sprout Stiletto
APPLICANT GEN.)	Asgrow Seed Company Harris Moran Seed Company	Asgrow Seed Company van Waveren Pflanzenzucht GmbH.	Rogers NK Seed Company Ferry-Morse Seed Company	7)	Company Vilmorin, S.A. Asgrow Seed Company	Seed Seed Seed	모	Rogers NK Seed Company Ferry-Morse Seed Company Nunhems Zaden B.V.	l-Sele sarch Seed luis	Asgrow Seed Company Royal Sluis B.V. Asgrow Seed Company Ferry-Morse Seed Company
KIND VARIETY	BEAN, GARDEN Homestyle Hystyle	Impact Irina	Javelin Javelin	Kentucky Blue Keygold	Label Labrador	Latemar Laureat Legion Lute	Magnum Mikado Milano	Minidoka Miriad Modus	Monaco Mustang Nerina Nomara	Opus Ovation Peak Pierre

(*) No limit to the number of generations of certified seed beyond breeders seed.

TITLE 5 (NO. OF GEN.)	¥ (1)	Y (1)	Y (2) Y (2)		(T)
T APPLICANT	L. D. Maffei Seed Company, Inc. Ferry-Morse Seed Company Ben Fish and Son King Grain, Inc. Hokkaido National Agricultural Experiment Station	Germinal Holdings Ltd., U.K. Grasslands Division / New Zealand DSIR Seed Research of Oregon, Inc.	Texas Agricultural Experiment Station International Seeds, Inc. Texas A & M University	Pennsylvania Pennsylvania Agricultural Experiment Station	Pennsylvania Agricultural Experiment Station Forbes Seed and Grain, Inc. University of Rhode Island Jacklin Seed Company Barenbrug USA - Marketing Division Lofts Seed, Inc.
KIND VARIETY		BENTGRASS, COLONIAL Duchess Grasslands Egmont SR 7100 BENTGRASS, CREEPING	י ש	Penneagle	Pennlinks ProCup Providence Regent SOUTHSHORE
TITLE 5 (NO. OF GEN.)	Y (3) Y (3)				
APPLICANT	Rogers NK Seed Company Ferry-Morse Seed Company Rogers NK Seed Company Mitsui Toatsu Chemicals, Inc. Mitsui Toatsu Chemicals, Inc. Wilbur-Ellis Company Asgrow Seed Company Harris Moran Seed	Company Ferry-Morse Seed Company Asgrow Seed Company Ferry-Morse Seed Company Company		Seed NK Se NK Se	Asgrow Seed Company Asgrow Seed Company Asgrow Seed Company Asgrow Seed Company Ben Fish and Son Sacramento Valley Milling, Inc. L. D. Maffei Seed Company, Inc.
KIND VARIETY	BEAN, GARDEN Summit Sundial Sunrae Surfing Surfing F Tanta Tema Tema	Tenderlake Tess Toga Tornado	Trueblue Venture	Vilber Volare Wax 216 Wax Romano 82264	Win Wrangler Yukon BEAN, GARDEN SHELL Buttergreen BEAN, LIMA Dompe 95 Maffei 15

^(*) No limit to the number of generations of certified seed beyond breeders seed.

TITLE 5 (NO. OF	GEN.)	Y (3)						Y (2)	Y (2)	Y (2)	Y (2)	
	APPLICANT	Barenbrug Holland B.V. Barenbrug Holding Pure-Seed Testing,	Inc. Pure-Seed Testing,	Inc. Pickseed West Inc. Pure-Seed Testing,	Inc. Jacklin Seed Company D.J. van der Have B.V. Pure-Seed Testing,	Inc. Mommersteeg International B.V. Jacklin Seed Company	Jacklin Seed Company New Jersey Agricultural	Experiment Station Jacklin Seed Company Idaho Agricultural Experiment Station	Lofts Seed, Inc. Idaho Agricultural Experiment Station	Idaho Agricultural Experiment Station Jacklin Seed Company	L. C. Nungesser K.G., West Germany Pickseed West Inc. Van Engelen Zaden B.V. Jacklin Seed Company Deutsche	Saatveredelung Lippstadt - Bremen Pure-Seed Testing, Inc.
KIND	VARIETY	BLUEGRASS, KENTUCKY Barsweet Bartitia Blacksburg	Blue Star	Bronco Challenger	Classic Cocktail Columbia	Cynthia	Destiny Eclipse	Freedom Gemar	Ginger	Greenley Huntsville	Ikone Indigo Julia Liberty Limousine	Livingston
TITLE 5 (NO. OF	GEN.)		Y (2)	Y (2)	¥ (3)				Y (2)		(3)	Y (3) Y (3)
T.	APPLICANT	Seed Research of Oregon, Inc.	Baker Seed Company	Oklahoma Agricultural Experiment Station and USDA-ARS	Max W. Lancaster New Mexico Crop Improvement Association	Farmers Marketing Corp. Farmers Marketing		Pure-Seed Testing, Inc. Pure-Seed Testing, Inc.	Idaho Agricultural Experiment Station	I	Cebeco Zaden B.V. Zelder B.V. W. Weibull AB Heart Seed Company, Inc. NK Lawn and Garden	Company D.J. van der Have B.V. Barenbrug Holland B.V. Barenbrug Holland B.V.
KIND	VARIETY	BENTGRASS, CREEPING SR 1020 BENTGRASS, RED TOP	ıda SS	Guymon	Lancaster NuMex SAHARA	Primavera Sonesta	BLUEGRASS, KENTUCKY A82-208	A83-865 Able I	Alene	Amazon America	Ampellia Apart Apex Argyle Aspen	Asset Barbie Barblue

^(*) No limit to the number of generations of certified seed beyond breeders seed.

TITLE 5 (NO. OF GEN.)	Y (2)	Y (2) Y (3)
APPLICANT	Research Corporation Technologies, Inc. Scattini Seeds, Inc. Asgrow Seed Company D'Arrigo Brothers California D'Arrigo Brothers Company of California Agrecol Corporation L. Daehnfeldt, Inc. Pyne Gould Guinness Ltd. and New Zealand Pastoral	Winsor Grain, Inc. Oklahoma Agricultural Experiment Station and USDA-ARS Bamert Seed Company Bamert Seed Company The Regents of the University of California Zaadteelt en Zaadteelt en Henderson Texas Agricultural Experiment Station
KIND	BROCCOLI Independence Toro BROCCOLI RAAB D'Arrigo No. 502 D'Arrigo No. 905 BAGGERASS, SWEET BROMEGRASS, SWEET Deborah BROMEGRASS, THREADY Grasslands Gala	BUCKWHEAT Winsor Royal BUFFALOGRASS Bison Turfmaster UCHL-1 CALENDULA Orange Gitana CAPER SPURGE Chico CARROT Texas Gold Spike
TITLE 5 (NO. OF GEN.)	Y (3) Y (2) Y (2)	
APPLICANT	Lofts Seed, Inc. Pure-Seed Testing, Inc. D.J. van der Have B.V. Lofts Seed, Inc. and Jacklin Seed Company Jacklin Seed Company W. Weibull AB Idaho Agricultural Experiment Station R. H. Bailey Seed, Inc. Pure-Seed Testing, Inc. Seed Research of Oregon, Inc.	Seed Research of Oregon, Inc. Jacklin Seed Company NK Lawn and Garden Company Pure-Seed Testing, Inc. Jonathan Green and Sons, Inc. and Cascade Pure-Seed Testing, Inc. Lofts Seed, Inc. Mommersteeg International B.V. Saatzucht Steinach GmbH.
KIND VARIETY		SR 2100 Suffolk Trenton Unique Washington Colt Laser Polder BLUEGRASS, SUPINA Supranova Supranova

(*) No limit to the number of generations of certified seed beyond breeders seed.

TITLE 5 (NO. OF GEN.)	(3) X	Y (3) Y (2)
APPLICANT	Sluis and Groot Research Sluis and Groot Research Clause S.A. A. Duda and Sons, Inc. Ferry-Morse Seed Company A. Duda and Sons, Inc. Bud Antle, Inc. Pybas Vegetable Seed Company, Inc. Bud Antle, Inc. Pybas Vegetable Seed Company, Inc. Rompany, Inc. Bud Antle, Inc. Rompany, Inc. The Regents of the University of California Royal Sluis, Koninklijke Zaaizaadbedrijven Seaview Growers, Inc. Tanimura and Antle, Inc. Tanimura and Antle, Inc. Ferry-Morse Seed Company	Grasslands Division / New Zealand DSIR Alabama Agricultural Experiment Station, Auburn University Curators of the University of Missouri
KIND VARIETY	CAULIFLOWER White Satin White Summer CELERY Bishop Deacon Gene's Gem 11-7 Hill's Special James Abe Matador Napolean Peto 285 Promise Rocket SV 1 T & A Pride T & A Pride T & A Special Celery -1 Ventura	CHICORY Grasslands Puna CHINESE, PERENNIAL AU Donnelly Marion
TITLE 5 (NO. OF GEN.)	X (*)	
APPLICANT	Rijk Zwaan Zaadteelt en Zaadhandel B.V. and Meo Voto Beheer Royal Sluis B.V. Rijk Zwaan Zaadteelt en Zaadhandel B.V. Ang Meo Voto Beheer Royal Sluis B.V. Tanimura and Antle, Inc. Rijk Zwaan Zaadteelt en Zaadhandel B.V. and Meo Voto Beheer Royal Sluis B.V. Rijk Zwaan Zaadteelt en Zaadhandel B.V. and Meo Voto Beheer Royal Sluis B.V. Rijk Zwaan Zaadteelt en Zaadhandel B.V. Sluis and Groot Rijk Zwaan Zaadteelt en Zaadhandel B.V. Sluis and Groot Rijk Zwaan Zaadteelt en Zaadhandel B.V. Rijk Zwaan Zaadteelt	Clause S.A. Ferry-Morse Seed Company Rijk Zwaan Zaadteelt en Zaadhandel B.V. Royal Sluis B.V. Sluis and Groot Research Sluis and Groot Research
KIND VARIETY	Andes Andes Andes Andes Aspen Blizzard Blue Diamond Campoverde Campoverde Minaret Minaret Nimba Meda Ostrea Senator SG 111 Silver Star	Snowball 123 Snowcone Triton Vernon White Fox

(*) No limit to the number of generations of certified seed beyond breeders seed.

TITLE 5 (NO. OF GEN.)	Cargill, Inc. United AgriSeeds, Inc. Pioneer Hi-Bred International, Inc.	et et	DEKALB Plant Genetics DEKALB Plant Genetics	1	DEKALB Plant Genetics	Plant Genetic -Pfizer Geneti		International, Inc. Asgrow Seed Company	Seed	DEKALB Genetics Corporation	DEKALB Plant Genetics Dekalb-Dfizer Genetics	DEKALB Plant Genetics	King	Northrup King Company Northrup King Company	King	DeKalb-Pfizer Genetics		DeKalb-Pfizer Genetics	דמוור	Northrup King Company Northrup King Company	King	King	Northrup King Company DEKALB Plant Genetics	DEKALB Genetics Corporation
KIND VARIETY	11430 1538 207	2369 29MIBZ2	2FACC 2FADB	2MA22 2MCDB	31BZ2 31TH6	31J11 4676A	4N506	5707	6103	6F545	のだらんどんないのう	6M502A	740	764 778	977	78002A 78004	78010	78371A	0 T C C C C C C C C C C C C C C C C C C	787	793	794	80/ 83IBI3	84BRQ4
OF ()				_				_		_				(2)	(2)	<u> </u>					_			
TITLE 5 (NO. OF GEN.)				*) X				Y (3)		X (2				×	Υ (V (3)					Y (2			
TITLE (NO. GEN GEN	Ferry-Morse Seed Company Ferry-Morse Seed		Company Ferry-Morse Seed		Mississippi	Agricultural and Forestry Experiment				tural Y ation	and N. Taylor	Seed	•	×			4	Association		Germinal Holdings Ltd., U.K.	ricultural Y	Experiment Station	W. Atlee Burpee	Company

(*) No limit to the number of generations of certified seed beyond breeders seed.

TITLE 5 (NO. OF	GEN.)		ໝ ໝ ເນີ ເນື)) (1)	ហ			·	·		·		•	~.	ro	8	70	8 0	ល			ល្អ	ល													
	APPLICANT	FFR Cooperative		()	DEKALB Plant Genetics	Seeds, Inc.	i-Bred	International, Inc Pioneer Hi-Bred	International, Inc	Pioneer Hi-Bred	International, Inc		International, Inc	Northrup King Company	DEKALB Plant Genetics		U	Geneti	eneti	DEKALB Genetics			1						Morthwin Wing Company	Tifee Sood		Lifaco Seed	Corporation	Lifaco Seed	Limadrain Genetics	Corp.
KIND	VARIETY	CORN, FIELD F42	FAPW	FBLA	FBLL FR 19	1444	G35	G39		G50		089		H8431	HB8229	HBA1	IBB14	IBB15	IBC2	IBH9		IBO14	IBO2	ICI 193	ICI 441	ICI 740		L	100 604) (C		L 135		L 139	L 155	
IT N)	APPLICANT GEN.)	DEKALB Genetics	Corporation DeKalb-Pfizer Genetics	Northrup King Company	DENALB Genetics Corporation	DEKALB Genetics	Corporation DEVALE Plant Concting	Northrup King Company	Northrup King Company			Northrup King Company	DEKALB Genetics	Corporation	DEKALB Plant Genetics	MAISADOUR	DEKALB Plant Genetics		International, Inc.	Floneer Hi-Bred	International, inc.	Northrup King Company		United AgriSeeds, Inc.		United AgriSeeds, Inc.	C. Kobinson Seed	Company T.C. Robinson Sood	Company	United Adriseeds Inc			International, Inc.	Northrup King Company DEKALB Plant Genetics	DEKALB Genetics	Corporation
KIND	VARIETY	CORN, FIELD 84QAB1	87916W	899	D	8M116	8M129	901	904	907	911	912	2 T PW W Z	1 L Q	DALIFCZ DACIJE	ABO / / 0	RQA3 BQ8	BOS	2 7 2	P4 /		BCCU3	CLOIT	CQ/UZFC	CK/13	CVado	Chi	CRIHE		CS405	CS608	DJ.7	(E8501 F118	F274	

(*) No limit to the number of generations of certified seed beyond breeders seed.

	TITLE 5			TITLE 5
	(NO. OF	KIND		(NO. OF
	GEN.)	VARIETY	APPLICANT	GEN.)
		CORN, FIELD		
undation		LH169Ht	Holden's Foundation	
			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	

APPLICANT		Holden's Foundation	124	Seeds, Inc. Holden's Foundation		1	Seeds, Inc. Holden's Foundation	14		4		4	Seeds, Inc.		Œ	Į I Į	Seeds, Inc.	14	14	1 4	I	14	14	•	14	ÍΞΙ	Seeds, Inc.
KIND VARIETY	CORN, FIELD	LH169Ht	LH172	T.H181	COTUT	LH184	T.H185	LH186		LH190	, , , , , , , , , , , , , , , , , , ,	LHI91	11100	76107	LH193	LH194		LH195	LH196	LH197	LH198	LH199	LH200		LH202	LH204	
TITLE 5 (NO. OF GEN.)																											
APPLICANT		Holden's Foundation	Holden's Foundation	Seeds, Inc.	Seeds, Inc.	-	Seeds, Inc.	Holden's Foundation	•	14		-	Seeds, Inc.	Sooda Inc	-	14	Seeds, Inc.	14	14	4	-	14	ഥ	Seeds, Inc.	щ	14	Seeds, Inc.
KIND VARIETY	CORN, FIELD	LH119	LH123HT	T.H.127	LUIZO	LH132	T.H143	LH145		LH146Ht	(LH149	Cathr	Cruzo	LH156	LH159		LH160	LH162	LH163	LH164	LH165	LH166		LH167	LH168	

^(*) No limit to the number of generations of certified seed beyond breeders seed.

TITLE 5	GEN.)																													100	***		10					
	APPLICANT		Щ	Seeds, Inc. Holden's Foundation	- 124	ഥ	•	14		4		_		بخ		_		щ	Seeds, Inc.	personal live	Seeds, Inc.	Holden's Foundation	Seeds, Inc.	S	Pfister Hybrid Corn	Company	Firster hybrid corn	Wilson Hybrids. Inc.		- 1	DeKalb-Pfizer Genetics	DEKALB Plant Genetics		DEKALB Plant Genetics	DEKALB Plant Genetics	DEKALB Genetics	Corporation	
TITLE 5 KIND		CORN, FIELD	LH51	LH52	LH54	LH57		LH59	02111	Оонт	7) 4 4 4	тонт		сонт		LH74		LH82		LH85		LH93		74	LP1 CMS HT	ָרָבָּי רְּיִבְּיִבְּיִים רְּיִבְּיִבְּיִים רְיִבְּיִבְּיִבְּיִבְּיִבְּיִבְּיִבְּיִבְ	LEI NK HI	Lp215D	Lp5	MBNA	MBPM	MBSJ	MBST	MBUB	MBWZ	MBZA		
TIT (NO)	APPLICANT G		-	Seeds, inc. Holden's Foundation	ᄺ	4	-	Holden's Foundation			noldon's none			7	No.	- 4		14	-	14	-	14	-	14	Seeds, Inc.	Rolden & Foundation	ᅜ		[Z4	Seeds, Inc.	_	Seeds, Inc.	[Li	Seeds, Inc.	Iowa State University	Research Foundation	Iowa State University	Research Foundation
KIND	VARIETY	CORN, FIELD	LH205	LH206	LH208	60 2 H7	Olcu	01287	T.H211	77717	+101011		FHO13	CTZUT	ALCUT	PHZ14	L	PH215	() () () () () () () () () ()	LH216	()	LH217	(7	DH218	TH020H+		LH222		LH223		LH224		LH225	4	LH38		ьнзэ	

(*) No limit to the number of generations of certified seed beyond breeders seed.

TITLE 5 (NO. OF GEN.)	, Car	· () ()	· (•	Inc.	Inc.	Inc.		Inc.	i	Inc.	Ţ	TIIC:	Inc.		Inc.		Inc.	Inc.		Inc.		Inc.		Inc.		Inc.		Inc.	Tuch	•	Inc.
APPLICANT	Pioneer Hi-Bred International Ir				International, Ir Pioneer Hi-Bred	1,	Floneer Hl-Bred International, In		1,		7,	Ploneer Hl-Bred Trternational Iv		1,	Pioneer Hi-Bred	1,		1,	Pioneer Hi-Bred International. In		1,		1,		1,		1,		International, II	_		1,
KIND VARIETY	CORN, FIELD PHG29	PHG47	PHG71	PHG72	PHG83		PHG84	PHG86		PHGG7		PHGV6	PHGW7		PHH93		PHHB4		РННВ9	РННН9		PHHV4		PHJ31	:	PHJ33		PHJ40	27114	Fnoon	PHJ70	
TITLE 5 (NO. OF GEN.)	DeKalb-Pfizer Genetics	DEKALB Plant Genetics	Agrise	Agriseeds,	United AgriSeeds, Inc. DowElanco	DowElanco	Dowelanco United AgriSeeds. Inc.	Agriseeds,		United AgriSeeds, Inc.	Dowblanco	United AgriSeeds, Inc.	Dioneer Hi-Bred	International, Inc.		International, Inc.		International, Inc.	Pioneer Hi-Bred International, Inc.		International, Inc.	International Inc		International, Inc.								
KIND VARIETY	CORN, FIELD MDF-13D MT.606	MM402A THEOTOM	MQ305 NT 001	NQ402	NQ508 NS501	NS701	NS815 00101	00403	00414	00601	0 <u>0</u> 03	OS602 PB80	FBSO		PHAW6		PHBA6		PHBB3	PHBW8		PHDD6		PHEG9	ı	PHEM7		PHEM9	rmand -	, Agus	PHFAS	

(*) No limit to the number of generations of certified seed beyond breeders seed.

TITLE 5 (NO. OF GEN.)																																							
		Ę		, Inc.		, Inc.		, Inc.	, Inc.		Inc.		, Inc.		, Inc.		, Inc.		, Inc.		, Inc.																		
		neer Hi-Bred International	i-Bred	International	i-Bred	International	L-Bred	International neer Hi-Bred	International	L-Bred	International,	L-Bred	International	L-Bred	International	-Bred	International,	-Bred	International,	-Bred	International	-Bred	International,	-Bred	International,	-Bred	International	-Bred	tional	-Bred	International,								
APPLICANT		Ploneer H.	licernaciona Pioneer Hi-Bred	Intern	Pioneer Hi-Bred	Intern	Ploneer H1-Bred	Internationa Pioneer Hi-Bred	Intern	Pioneer Hi-Bred	Interna	Pioneer Hi-Bred	International	Pioneer Hi-Bred	Interna	Pioneer Hi-Bred	Interna	Pioneer Hi-Bred	Interna	Pioneer Hi-Bred	nterna	Pioneer Hi-Bred	nterna																
APP	6	P10	Pio		Pio	6	P10	ָ הַנָּ		Pio	• •	Pio		Pior	Н	Pior	Н																						
								1																															
VARIETY	FIELD	T T	18		29	•	34	37		41		46		47		99		73		82		02		38		55		09		92		85		R5		03		25	
KIND	CORN, FIEI	PHN	PHN18		PHN29		PHN34	75NHd		PHN41		PHN46		PHN47		PHN66		PHN73		PHN82		PHP02		PHP38		PHP55		PHP60		PHP76		PHP85		PHPRS		PHR03		PHR25	
X	O																																						
TITLE 5 (NO. OF GEN.)																																							
H 🔷		Ţ		, Inc.		, Inc.		, Inc.	Inc.		, Inc.		, Inc.		, Inc.		, Inc.		, Inc.		, Inc.		, Inc.		Inc.		. Inc.		Inc.		, Inc.		, Inc.		, Inc.		, Inc.		, Inc.
	í	neer Hi-Bred International	Hi-Bred	International,	-Bred	International,	-bred	International, neer Hi-Bred	International,	-Bred	$\overline{}$	-Bred	International,																										
APPLICANT		eer H1	Pioneer Hi	nterna	Pioneer Hi-Bred	nterna	Ploneer H1-Bred	Interna Pioneer Hi	nterna	Pioneer Hi-Bred	nterna	eer Hi	nterna	Pioneer Hi-Bred	International	Pioneer Hi-Bred	nterna																						
APPL		Ploneer Trte	Pion	H	Pion	H :	Flon	I noid	H	Pion	Н	Pion	Н	Pion	Н	Pion	Н	Pion	H	Pion	H	Pior	Н	Pior	П														
ETY	ELD	J	6		0	L	S	ហ		6		വ		2		9		9		4		9,		33		9:		15		0		19		57		31		KO	
KIND VARIETY	CORN, FIELD	CHA	PHJ89		PHJ90		PHJKS	PHK05		PHK29		PHK35		PHK42		PHK46		PHK56		PHK74		PHK76		PHK93		PHKE6		PHKMS		PHM10		PHM49		PHM57		PHM81		PHMKO	

(*) No limit to the number of generations of certified seed beyond breeders seed.

TITLE 5 (NO. OF GEN.)			Inc.	TnC	•	10.		Inc.		Inc.		Inc.		Inc.		Inc.		Inc.		ic.		Inc.		Inc.		Inc.		Inc.		Inc.		Inc.		Inc.		Inc.		Inc.		Inc.
APPLICANT		Pioneer Hi-Bred	International, Ir			International, Inc	Pioneer Hi-Bred	1,		7,		1,		Τ,		1,	Pioneer Hi-Bred	1,	Pioneer Hi-Bred	International, Inc	Pioneer Hi-Bred	1,	Pioneer Hi-Bred	1,	Pioneer Hi-Bred	1,		1,	Pioneer Hi-Bred	1,	Pioneer Hi-Bred	7,	Pioneer Hi-Bred	1,						
KIND VARIETY	CORN	PHT77	000000000000000000000000000000000000000	Collina	PHTE4		PHTM9		PHV07		PHV3/		PHV53	E a o o	PHV57		PHV63		PHV78		PHVA9		PHVJ4		PHW03		PHW06		PHW17		PHW20		PHW30		PHW43		PHW51		PHW52	
TITLE 5 (NO. OF GEN.)			Inc.	Inc.		Inc.		Inc.		Inc.		Inc.		ruc.	i	Inc.		Inc.		Inc.		Inc.		Inc.		Inc.		Inc.		Inc.		Inc.		Inc.		Inc.		Inc.		Inc.
APPLICANT		Pioneer Hi-Bred	International,]	nr bred national,		1,		national,		1,		International, I	_	\ _		1		7,		7,		7,		1,		7,		Ι,		7,		1,		7,		1,		1,		International, I
KIND VARIETY	CORN, FIELD	PHR30	PHR31		PHR32	1	PHR36		PHK4/	20000	Finds	0 10 10 10 10 10 10 10 10 10 10 10 10 10	CONT	Dubc1	Fundi	ţ	PHK62		PHR63		PHRD6		PHRE1		PHTIO		TT.I.H.d		PHT22		PHT.4 /	1 1	PHT55		PHT60		PHT69		PHT'/3	

(*) No limit to the number of generations of certified seed beyond breeders seed.

TITLE 5 (NO. OF GEN.)		Y (2) Y (3)	Y (3) Y (3)
APPLICANT	The Standard Oil Company Northrup King Company	Frank Holland Black Jewell Popcorn, Inc. Russell and Louise James Asgrow Seed Company John Bodger and Sons Company Delta and Pine Land	Company Ronald D. Thorp Ronald D. Thorp Stoneville Pedigreed Seed Company, Inc.
KIND VARIETY	CORN, FIELD SX-5-6 SX-5-6 SX-6-10 SX-6-15-2-1 SX-6-3 SX-6-7 W8304 W8555 WB555 WB555 WB555 WB1900 WIL900 WIL9003 ZS365 ZS365 ZS635 CORN, POPCORN		Acala BR-110 Acala BR-115 Acala BR-636
TITLE 5 (NO. OF GEN.)	Pioneer Hi-Bred International, Inc. Pioneer Hi-Bred International	Company The Standard Oil Company Company Company	The Standard Oil Company The Standard Oil Company
KIND VARIETY	CORN, FIELD PHW53 PHW65 PHW79 PHW86 PHW86 PHW65 PHX51 Q381 Q381 RS710 S8324 S8324 S8326 Seagull Seventeen SX-4-16-2	-21 -32- -33- -11	SX-5-13-3 SX-5-14-1-2

(*) No limit to the number of generations of certified seed beyond breeders seed.

TITLE 5 (NO. OF GEN.)		Y (3)	Y (3)						Y (3)					Y (3)		¥ (3)
APPLICANT		Curators of the University of Missouri	Curators of the University of	Delta and Pine Land Company Delta and Pine Land	Pine	Delta and Pine Land Company Delta and Pine Land	Company Delta and Pine Land Company	Delta and Pine Land Company	Pine	Delta and Pine Land Company Delta and Pine Land	Company Delta and Pine Land Company	Delta and Pine Land Company		SeedCo Corporation Mississippi	Agricultural and Forestry Experiment	Mississippi Agricultural and Forestry Experiment
KIND	NOFFICE	Delcot 311	Delcot 344	Deltapine 120		Deltapine 41 Deltapine 50	Deltapine 51	Deltapine 62		Deltapine 70 Deltapine 77	Deltapine Acala 90	Deltapine NSL		Deltapine SR-980 DES 119		DES 422
TITLE 5 (NO. OF GEN.)		Y (*)	X (*)	¥ (*)		Y (3)	Y (3)			Y (3)	Y (3)			Y (3)	¥ (3)	
APPLICANT		California Planting Cotton Seed Distributors	California Planting Cotton Seed	California Planting Cotton Seed Distributors	All-Tex Seed Inc. All-Tex Seed Inc. Levelland Delinting.	Inc. Arkansas Agricultural Experiment Station	Bronco Seed Company Bronco Seed Company Custom Ag Service Inc.	Custom Ag Service Inc. Chaney Ranch Research	# —	Seed Company, Inc. Stoneville Pedigreed Seed Company, Inc.	Stoneville Pedigreed Seed Company, Inc. Stoneville Pedigreed	Seed Company, Inc. Stoneville Pedigreed	Stoneville Pedigreed Seed Company, Inc.	Stoneville Pedigreed Seed Company, Inc.	SeedCo Corporation SeedCo Corporation	Sally Vreseis Fox Dawson County Seed Company
KIND VARIETY	NOTHOU	Acala Maxxa	Acala Prema	Acala Royale	All-Tex Atlas All-Tex Excess All-Tex Max-9	ထ္	Bronco 360 Bronco 625 Cascot BR-1	u	CH253 Coker 130	Coker 139	Coker 208 Coker 3131	315		Coker 420	Coker 4360 Coker 500	Coyote Dawson V-14

^(*) No limit to the number of generations of certified seed beyond breeders seed.

TITLE 5 (NO. OF GEN.)	Y (3)	(3) K (3)		¥ (3)	Y (3)		Y (3)																										
APPLICANT	Germain's, Inc.	Germain's, Inc. Germain's, Inc.	ompany,	Seed Compa	Sally Vreseis Fox The Lubrizol		The Lubrizol	Agrigenetics	on,	DIVISION OF THE The The Lubrizol	Corporation	The Lubrizol		The Lubrizol		The Lubrizol	Corporation	The Lubrizol	Corporation	Helena Chemical		HyPerformer Seed	J&S Research Company	TEC Become Comment	of Arisons Inc	_	Company, dba	HyPerformer Seed	Seed Source, Inc.	Stoneville Pedigreed	Seed Company, Inc.	Stoneville Pedigreed	Seed Company, Inc.
KIND	COTTON Germain's Acala GC-610	Acala GC-210		GP 74+	Green GSA 74		GSA 78	GSC 1093		GSC 20		GSC 25		GSC 27		GSC 30		GSC 71+		HS 23		i	HS Salcot 10		44-4	HS-46				KC 380		KC311	
TITLE 5 (NO. OF GEN.)																								`	I (3)		Y (3)	(*) X	(*) X	Y (3)	Y (*)	¥ (*)	(∗)
APPLICANT	Delta and Pine Land	Company Delta and Pine Land	Y Dino) Till (Delta and Pine Land Company	Delta and Pine Land	Company Delta and Pine Land		Delta and Pine Land	Company Delta and Pine Land	>	Delta and Pine Land	ompany	Seed Farms,	Seed Farms,	Seed Farms,	Seed Farms,	Seed Farms,	Seed Farms,	Seed Farms,	LT.	University of Georgia	Research		.Ir.: David I. West.	Kenneth L. Purvear:	Inc			Germain's, Inc.	Germain's, Inc.	ß	Germain's, Inc.
KIND VARIETY	COTTON DP 5409	DP 5415	np 5461		DP 5614	DP 5681	0695 40		DP 5816	DP 6100 ACALA		DP 6166 Acala						Dunn 224		400		Georgia King			s Acala GC-3		Germain's Acala GC-356	's Acala GC-3	-D5 t	a GC	's Acala GC-4	's Acala GC	Germain's Acala GC-555

^(*) No limit to the number of generations of certified seed beyond breeders seed.

TITLE 5 (NO. OF GEN.)	Y (3)		X (2)		¥ (3)
APPLICANT	Arkansas Agricultural Experiment Station Rilcot Seed Company Rogers LG Cottonseed	Rogers Delinted Cottonseed Company Rogers LG Cottonseed Company Rogers Delinted Cottonseed Company Seed Source, Inc. Seed Source, Inc. B&M Cotton Company	Oklahoma Agricultural Experiment Station SeedCo Corporation SeedCo Corporation Stoneville Pedigreed Seed Company, Inc. Stoneville Pedigreed	Seed Company, Inc. Stoneville Pedigreed Seed Company, Inc. Seed Company, Inc. Stoneville Pedigreed Seed Company, Inc.	Stoneville Pedigreed Seed Company, Inc. Stoneville Pedigreed Seed Company, Inc. Stoneville Pedigreed Seed Company, Inc. Ellis Brothers Seed, Inc. Sure-Grow Seed, Inc. Sure-Grow Seed, Inc.
KIND VARIETY	COTTON Rex 713 Rilcot 90-A Rogers 7590	Rogers LG 102 Rogers LG 86 Rogers LG-10 S-35 S-55 San Simon Del Cerro	Simwalt 82 Southland 400 Southland M1 St 132 Stoneville 112		Stoneville 506 Stoneville 825 Stoneville 907 Sure-Grow 1001 Sure-Grow 404 Sure-Grow 501
TITLE 5 (NO. OF GEN.)	Y (1)	(3) K (3)	Y (*) Y (3)		¥ (3) ¥ (3)
APPLICANT	V. T. Walhood and Westlake Farms, Inc. Louisiana Agricultural	mbrigh d Pine ny d Pine d Pine d Pine ny	Phytogen Sally Vreseis Fox Delta and Pine Land Company Delta and Pine Land Company Delta and Pine Land	Company Delta and Pine Land Company Delta and Pine Land Company Company	South Carolina Agricultural Experiment Station Delta and Pine Land Company Rosebud Cottonseed Treating Company, Inc. Brownfield Seed and Delinting Company, Inc.
KIND VARIETY	COTTON Kings Acala M5 LA 887	Lambright 2020 Lankart 142 Lankart 175 Lankart 311 Lankart 511	Oro Blanco Pima Palo Verde Paymaster 145 Paymaster 147	Paymaster 892 Paymaster HS 26 Paymaster HS200	PD-3 PR 75 PR 80 Quapaw D

^(*) No limit to the number of generations of certified seed beyond breeders seed.

TITLE 5 (NO. OF GEN.)	Y (3)		Y (3) Y (3)		Y (2)	Y (3)		
T APPLICANT	C. T. Smith Company Auburn University Agricultural	Mississippi Agricultural and Forestry Experiment	Mississippi Agricultural and Forestry Experiment Mississippi	Agricultural and Forestry Experiment Chester Brogden and Charles E. Smith	Tex	M. J. Goode, J. L. Bowers and Arkansas Agricultural W. Atlee Burpee Company Waller Flowerseed Company	John Bodger and Sons Company John Bodger and Sons Company Company John Bodger and Sons	S S C
KIND VARIETY	COWPEA CT Pinkeye Purplehull Freezegreen	ississippi	Mississippi Pinkeye - Mississippi Shipper	Pinkeye Pink Pod	Texas Pinkeye Purple Hull CUCUMBER	Arkansas Little Leaf Picklebush DAHLIA Redskin	Magic Fountains Dark Blue/Dark Bee Magic Fountains Lilac Pink Magic Fountains Sky Blue	Fingers Green
TITLE 5 (NO. OF GEN.)		Y (2) Y (3)	Y (3) Y (1)	Y (1) Y (2)	Y (3)	¥ (3)	Y (3)	
APPLICANT	J&S Research Company of Arizona, Inc. J&S Research Company of Arizona, Inc.		Texas Agricultural Experiment Station Texas Agricultural Fynoriment Station	Texas Agricultural Experiment Station Texas Agricultural	Experiment Station Texas Agricultural Experiment Station	Texas Agricultural Experiment Station Terra International, Inc. Terra International, Inc. Delta and Pine Land Company	por of of ior	r. t: m m
KIND VARIETY	COTTON SV 13 SV 93	Tamcot 2111 Tamcot CAB-CS	Tamcot CAMD-E Tamcot CD3H	Tamcot GCNH Tamcot HQ95		Terra 207 Terra 292 Terra C-30 Terra C-40	Terra SR-10 Tifcot 56 COWPEA Big Boy Purplehull	Carolina Sugar Clemson Purple

^(*) No limit to the number of generations of certified seed beyond breeders seed.

TITLE 5 (NO. OF GEN.)		Y (2)	Y (2) Y (2)	Y (3)	Y (3) Y (3)	Y (3) Y (1)
APPLICANT	Pure-Seed Testing, Inc. Van Engelen Zaden B.V. D.J. van der Have B.V. Pure-Seed Testing, Inc. Lofts Seed, Inc. Willamette Seed Company, Inc.	D.J. van der Have B.V. Pickseed West Inc. Seed Research of Oregon, Inc. Seed Research of Oregon, Inc.	Idaho Agricultural Experiment Station Idaho Agricultural Experiment Station	Michigan State University Snow Brand Seed Company Ltd.	Barenbrug Holland B.V. Cebeco Zaden B.V. Pure-Seed Testing, Inc.	W.W. Johnson and Son Ltd., U.K. Germinal Holdings Ltd., U.K. National Seed Development Organization Ltd.
KIND	FESCUE, HARD Discovery Eureka Hartina Nordic Reliant Serra	Spartan Spartan SR 3000 SR 3100	FESCUE, IDAHO Joseph Nezpurs	FESCUE, MEADOW Beaumont First FESCUE, RED	Barcrown Cindy Claudia Flyer	Jupiter Logro Merlin
TITLE 5 (NO. OF GEN.)	Υ (3)		Υ (3)		Y (2)	
APPLICANT	D'Arrigo Brothers Company of California Cebeco Zaden B.V. Cebeco Zaden B.V. D.J. van der Have B.V. Germinal Holdings Ltd., U.K.	Lofts Seed, Inc. Zelder B.V. International Seeds, Inc. D.J. van der Have B.V. Mommersteeg	International B.V. J. Joordens Zaadhandel B.V. Saatzucht Steinach GmbH.	Mommersteeg International B.V. Zelder B.V. Grassland West Pure-Seed Testing,	Seed Research of Oregon, Inc. Pure-Seed Testing, Inc. Pickseed West Inc.	Pure-Seed Testing, Inc. Mommersteeg International B.V. Mommersteeg International B.V.
KIND VARIETY	FENNEL AB Sweet Anise 93 FESCUE, CHEWINGS Capitol Center Contour Contour	Jamestown II Lobi Longfellow Magenta Mary	Menuet Milan	Molinda Parita Proformer Shadow	SR 5000 Tiffany Victory	FESCUE, HARD Aurora Brigade Crystal

(*) No limit to the number of generations of certified seed beyond breeders seed.

TITLE 5 (NO. OF GEN.)					Y (3) Y (2)
APPLICANT	FFR Cooperative The O. M. Scott and Sons Company Pickseed West Inc. Pure-Seed Testing,	Inc. Lofts Seed, Inc. Smith Seed Services Pickseed West Inc. Jonathan Green and Sons, Inc. and Cascade	Pure-Seed Testing, Inc. Pickseed West Inc. E. F. Burlingham and Sons Pure-Seed Testing, Inc. Finelawn Research.	Inc. Pure-Seed Testing, Inc. FFR Cooperative Smith Seed Services International Seeds, Inc. Pure-Seed Testing, Inc.	Inc. University of Kentucky and USDA-ARS University of Missouri Pure-Seed Testing, Inc. Jacklin Seed Company Curators of the University of Missouri
KIND VARIETY	FESCUE, TALL Cattle Club Chesapeake Chieftain Cimarron	Clemfine Conestoga Crewcut Duke	Eldorado Emperor Falcon Finelawn 5GL	Finelawn I Forager Homestead Houndog Jaguar	0 N L
TITLE 5 (NO. OF GEN.)				Y (3)	X (3)
APPLICANT	James M. Stewart, Inc., Conservaseed Mommersteeg International B.V. Pure-Seed Testing,	Mommersteeg International B.V. Pure-Seed Testing, Inc. Pure-Seed Testing,	Jacklin Seed Company Pure-Seed Testing, Inc. Pure-Seed Testing, Inc. Pure-Seed Testing,	Jacklin Seed Company Pure-Seed Testing, Inc. Pure-Seed Testing, Inc. Alabama Agricultural Experiment Station, Auburn University Barenbrug Holland B.V.	Holland Holland Testing, onal Seed
KIND VARIETY	FESCUE, RED Molate Blue Moncorde Shademaster	Victor Vista FESCUE, SLENDER Bighorn	MX-86 FESCUE, TALL Adventure Amigo Apache	Arid Arriba Astro AU Triumph Barcel	Barvetia Bonanza Bonsai Cajun Carefree

(*) No limit to the number of generations of certified seed beyond breeders seed.

TITLE 5 (NO. OF GEN.)		¥ (2)	Υ (3)	Y (2) Y (3)
APPLICANT	Pure-Seed Testing, Inc. Pure-Seed Testing, Inc. Lofts Seed, Inc. International Seeds, Inc. International Seeds, Inc. Pure-Seed Testing, Inc. Jacklin Seed Company D.J. van der Have B.V. North Carolina Agricultural Besearch Service	Foundation Seed Stocks, South Dakota	Denholm Seeds Ernst Benary, West Germany Barenbrug Holland B.V. Alabama Agricultural Experiment Station	Texas Agricultural Experiment Station G. E. Pogue Seed Company, Inc.
KIND VARIETY	FESCUE, TALL Tradition Trailblazer Trailblazer II Tribute Trident Willamette Winchester Wrangler FESTULOLIUM Tandem FLACCIDGRASS Carostan	FOXTAIL, CREEPING Retain GAZANIA	Daybreak Orange Mini-Star Tangerine HAIR-GRASS, CRESTED Barkoel HARDINGGRASS Au Oasis	KLEINGRASS Verde LAURISAGRASS Cowboy
TITLE 5 (NO. OF GEN.)				
APPLICANT	International Seeds, Inc. Pure-Seed Testing, Inc. Pure-Seed Testing, Inc. Pure-Seed Testing, Inc. Pure-Seed Testing, Inc. Inc. Inc. Inc. FFR Cooperative FFR Cooperative Cofts Seed, Inc. Lofts Seed, Inc. Lofts Seed, Inc. Lofts Seed, Inc. Lofts Seed, Inc.	Inc. Pure-Seed Testing, Inc. Ag Tech, Inc. R. J. Peterson	Enterprises, Inc. Pickseed West Inc. Pure-Seed Testing, Inc. International Seeds, Inc. Smith Seed Services NPI Seed Inc.	Pure-Seed Testing, Inc. Willamette Seed Company, Inc. Seed Research of Oregon, Inc.
KIND VARIETY	FESCUE, TALL Mojave Monarch Mozark Murietta Mustang Olympic II Pacer Pacer Phyter Rebel Rebel Rebel Rebel II	Safari Safe Shenandoah	Shortstop Silverado Southland Stagecoach Tempo	Thunderbird Tip Titan

(*) No limit to the number of generations of certified seed beyond breeders seed.

TITLE 5 (NO. OF GEN.)		¥ (*)		* *
APPLICANT	Sunseeds Company Asgrow Seed Company Genecorp, Inc. Central Valley Seeds,	Inc. Asgrow Seed Company Central Valley Seeds, Inc. Royal Sluis, Koninklijke Zaaizaadbedriiven	clause S.A. Genecorp, Inc. Genecorp, Inc. Koninklijke Zaaizaadbedrijven Gebroeders Sluis, Harris Moran Seed Company Ferry-Morse Seed Company	Company Genecorp, Inc. Royal Sluis, Koninklijke Zaaizaadbedrijven Clause S.A. Royal Sluis, Koninklijke Zaaizaadbedrijven Asgrow Seed Company Sakata Seed America, Inc. Royal Sluis B.V. Ferry-Morse Seed Company Asgrow Seed Company Asgrow Seed Company Ferry-Morse Seed Company Asgrow Seed Company Ferry-Morse Seed
KIND VARIETY	LETTUCE Commander Coolguard Cos King Crisp & Green	Crispy Darkland Cos Del Rey	Delmar Desert Queen Desert Spring Diplomat Don Juan Duchesse Dynasty	Early Giant El Dorado El Toro Encore Epic Esmeralda Fallgreen Fame Famfare
TITLE 5 (NO. OF GEN.)				
APPLICANT	Wilbur-Ellis Company Asgrow Seed Company Harris Moran Seed	Quali-Sel, Inc. Asgrow Seed Company Sakata Seed America, Inc. Central Valley Seeds, Inc.	Genecorp, Inc. Petoseed Company, Inc. Genecorp, Inc. Royal Sluis, Koninklijke Zaaizaadbedrijven Plant Genetics, Inc. Ferry-Morse Seed Company Genecorp, Inc. Asgrow Seed Company Genecorp, Inc.	Asgrow Seed Company Genecorp, Inc. Petoseed Company, Inc. Bud Antle, Inc. Genecorp, Inc. Arthur Yates and Company Pty. Ltd. Sluis and Groot Research Asgrow Seed Company Quali-Sel, Inc. Genecorp, Inc. Genecorp, Inc. Genecorp, Inc. Koninklijke Xaaizaadbedrijven
KIND VARIETY	LENTIL Lolita LETTUCE Ace Alpha DMR	Amaral 78 Andros Aquarius Aragon Red	Atlas Augustus Basore 920 Bautista Bella Rosa Bellagreen Big Red Bix	Bonanza Boston Rose Bounty Bud 71-3 Buena Vista Bulls Eye Canasta Capri Capri Champ Champ Champ Chieftain Classic Clemente

(*) No limit to the number of generations of certified seed beyond breeders seed.

TITLE 5 (NO. OF GEN.)			ů	° U	
APPLICANT	Ferry-Morse Seed Company Bruce Church, Inc. Bruce Church, Inc.	orp, Inc. orp, Inc. orp, Inc. orp, Inc. orp, Inc. Zaadhand	Genecorp, Inc. Genecorp, Inc. Bruce Church, Inc. Genecorp, Inc. Petoseed Company, Inc.	Sakata Seed America, Inc. Asgrow Seed Company Ferry-Morse Seed Company Petoseed Company, Inc. Johnny's Selected Seeds and Brinker Orsetti Seed Royal Sluis B.V.	Harris Moran Seed Company Ferry-Morse Seed Company Vilmorin, S.A. Genecorp, Inc. Petoseed Company Ferry-Morse Seed Company Vilmorin, S.A.
KIND VARIETY	LETTUCE Overture Paragon Pioneer	Primavera Prince Pro 917 Racy Red Raider Raisa	0 J	Red Vogue Redhead Redprize Romulus Rosalita Royal Green	Salad Bibb Salverde Sangria Scarlett Butter Sedona Shogun
TITLE 5 (NO. OF GEN.)		K (*)			
APPLICANT	Ferry-Morse Seed Company Bruce Church, Inc. Ferry-Morse Seed Company	Sakata Seed America, Inc. Genecorp, Inc. Genecorp, Inc. Genecorp, Inc. Genecorp, Inc.	Company Scattini Seeds, Inc. Asgrow Seed Company Harris Moran Seed Company	Genecorp, Inc. Genecorp, Inc. Genecorp, Inc. Arthur Yates and Company Pty. Ltd. Genecorp, Inc. Royal Sluis B.V. Genecorp, Inc. Koninklijke Zaaizaadbedrijven Gebroeders Sluis.	Asgrow Seed Company Genecorp, Inc. Arthur Yates and Company Pty. Ltd. Genecorp, Inc. Genecorp, Inc. Genecorp, Inc. Genecorp, Inc. Genecorp, Inc. Bruce Church, Inc.
KIND VARIETY	LETTUCE FM 8248 Gabilan Garnet	Genecorp Boston Genecorp Cos Genecorp Green Genesys Green	Golden Bibb Green Bowl Green Towers	Greengo Honcho II Ideal Cos Impact Jazz Kelvin King City LaJolla	Le Cup Lettich Magnum Major Cos Marvel Maverick Maverick II Mission Monarch

(*) No limit to the number of generations of certified seed beyond breeders seed.

TITLE 5	GEN.)						
	APPLICANT	Sluis and Groot Research Sluis and Groot Research	Goldsmith Seeds, Inc. Denholm Seeds John Bodger and Sons Company John Bodger and Sons	Company John Bodger and Sons Company W. Atlee Burpee	and and and	and and eeds, eeds, eeds, ruct and and	John Bodger and Sons Company
NTW	VARIETY	LOBELIA, ANNUAL Midnight Moon Papermoon MARIGOLD	Aurora Yellow Fire Bonanza Yellow Disco Flame Disco Golden Yellow	Disco Orange Happy Red	Hero Flame Hero Gold Hero Harmony Hero Orange	Hero Yellow Ice Crush Janie Bright Yellow Janie Flame Janie Tangerine Nemanon Orange Sophia Papaya Crush Improved	Fineappie Crusn improved
TITLE 5	GEN.)					(*) X	
	APPLICANT	Ferry-Morse Seed Company Genecorp, Inc. Asgrow Seed Company Vilmorin, S.A.		Company, Inc. Brinker Orsetti Seed Company, Inc. and		Company Genecorp, Inc. Koninklijke Zaaizaadbedrijven Gebroeders Sluis, Sakata Seed America, Inc. Brinker Orsetti Seed Company, Inc. Bruce Church, Inc. Genecorp, Inc. Bruce Church, Inc.	Research
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(*) No limit to the number of generations of certified seed beyond breeders seed.

TITLE 5 (NO. OF GEN.)	¥ (3)	Y (2) Y (3)	K (3)	Y (3)	Y (3) Y (2)	Y (2)	(3) K (3)	Y (2)	Y (*) Y (3)	X (3)
T APPLICANT	Arkansas County Seed Company, Inc. Ohio Agricultural Research and	Development Center, Wisconsin Agricultural Experiment Station Minnesota Agricultural	Experiment Station Northrup King Company University of Illinois	Morth Carolina Agricultural Research Service Wisconsin Agricultural Experiment Station	d. rup King nsin Agri	Experiment Station Wisconsin Agricultural Experiment Station	Northrup King Company Pennsylvania Agricultural Experiment Station	Wisconsin Agricultural Experiment Station Purdue University Agricultural Experiment Station	H. L. Umlauf Frederick B. Ledeboer Northrup King Company Douglass W. King	North Dakota Agricultural Experiment Station
KIND VARIETY	OAT 871 Armor	Bay	Big Mac Brawn	Srooks Centennial	Coker 820 Dane	Ensiler	Four Twenty Two Hercules	Horicon IN09201	Magnum Magnum II Mesquite Mesquite II	Newdak
TITLE 5 (NO. OF GEN.)				Y (2)						
APPLICANT	John Bodger and Sons Company Denholm Seeds John Bodger and Sons	Company nn Bodger and Company nholm Seeds	W. Atlee Burpee Company	Oregon State University Agriculture Oregon State University	Ali Abad Farm	Alabama Agricultural Experiment Station, Department of	Asgrow Seed Company Northrup King Company Northrup King Company Shamrock Seed Company,	Inc. Rogers Seed Company Gro-Pro Enterprises, Inc. Robert E. and Lisa C.	s.A. S.A.	Arkansas County Seed Company, Inc.
KIND VARIETY	MARIGOLD Pumpkin Crush Improved Queen Bee Safari Yellow	Scarlet Sophia Spry Boy	Xantho-Orange MEADOWFOAM	Mermaid	MELON, KHARBUZA Aliabadi MUSKMELON	AUrora	Gusto 45 Marathon Musketeer PMR 45 Full Net	Stephanie Sunglo Casaba Sweet April	Top Net Top Net SR Valley Gold	833

(*) No limit to the number of generations of certified seed beyond breeders seed.

TITLE 5 (NO. OF GEN.)		¥ (3)
APPLICANT	Asgrow Seed Company Shamrock Seed Company, Inc. Asgrow Seed Company Asgrow Seed Company Asgrow Seed Company Shamrock Seed Company Inc. Sunseeds Company	New Mexico Agricultural Experiment Station New Mexico Agricultural Experiment Station Les Produits Organiques du Santerre-Orsan S.A. Sunseeds Company Texas Agricultural Experiment Station Hortigen B.V. Sunseeds Company Asgrow Seed Company Texas Agricultural Experiment Station Texas Agricultural Experiment Station Texas Agricultural Experiment Station Texas Agricultural Experiment Station Texas Agricultural
KIND	Emerald Isle Everest Gala Glory La Joya Lumina New Mexico White Grano PRR New Mexico Yellow Grano PRR	Numex Casper NuMex Starlite Omo M Paradise Perla Red Pinoy Red Sunset Redbone Regal Regal Regia Serrana Serrana SSC 0020 Sweet Winter Texas Grano 1015Y Texas Grano 1025Y
TITLE 5 (NO. OF GEN.)		K (3) K (3)
APPLICANT	Pennsylvania Agricultural Experiment Station Purdue University Agricultural Experiment Station Wisconsin Agricultural Experiment Station Minnesota Agricultural Experiment Station Minnesota Agricultural Experiment Station Experiment Station	Southern States Cooperative, Inc. Minnesota Agricultural Experiment Station North Carolina Agricultural Research Service Sunseeds Company Sunseeds Company Sunseeds Company Inc. Shamrock Seed Company, Inc. Sunseeds Company Asgrow Seed Company Arsand Mrs. James Corona Sunseeds Company Texas Agricultural Experiment Station Shamrock Seed Company, Inc.
KIND VARIETY		Southern States 76-30 Starter Yeats Cajun Queen Prelude ONION Blanco Duro Brooks PRR Cardinal Cardinal Cortessa Corona Italian Red Crystal Wax Pickling Dorada Dynasty Early Grand PRR

(*) No limit to the number of generations of certified seed beyond breeders seed.

KIND VARIETY	APPLICANT	TITLE 5 (NO. OF GEN.)	KIND VARIETY	APPLICANT	TITLE 5 (NO. OF GEN.)
ONION Texas Grano 1030Y	Texas Agricultural		PEA Aristagreen	Wilbur-Ellis Company	
Texas Grano 1105Y	Experiment Station Texas Agricultural		Athena	W. Brotherton Seed Company, Inc.	
Texas Grano 438	Experiment Station Texas Adricultural		Ava Badger	Nunhems Zaden B.V. Gallatin Vallev Seed	
	Experiment Station)))))	Company	
Texspan PRR ORCHARDGRASS	Sunseeds Company		Barok Belinda	Asgrow Seed Company Cebeco Zaden B.V.	Y (3)
Benchmark	FFR Cooperative		Bellroy	Ardie G. Gustafson,	
Grabbiands rekapo	New Lealand Fascoral Agriculture	1 (2)	Bemol	Asgrow Seed Company	
	Research Institute		Blizzard	Rogers Brothers Seed	
Justus	University of Missouri	Y (*)	7 7 8		
MODICE	Mommersteeg International B.V.		Bold Bonito	Crites-Moscow Growers,	
Satin				Inc.	
Summer Green	Snow Brand Seed		Bonnaire	Asgrow Seed Company	
atwa	company Ltd.		Bounty	Gallatin Valley Seed	
Fancoust	Begents of the		ر ماردون + ناروردون	Callatin Valley Seed	
			Calidottico	Company	
	Minnesota		Caprice	Asgrow Seed Company	
PEA			Captain	Nunhems Zaden B.V.	
#9888 Freezer	Nunhems Zaden B.V.		Ceras	Asgrow Seed Company	
260			Challis	Crites-Moscow Growers,	
	Green Giant Company	Y (*)		Inc.	
77 Early Perfection			Charo	Ardie G. Gustafson,	
9000 Freezer			7	Seedsman	
ALM	seed comp		Cltadel	מפפמ	
Alcan	Rogers Brotners seed		CIIC	Asgrow Seed Company	
۵) لا	Aggrow Seed Company		Consort Danto	booker seeds billited	(3)
Alpha I	Wilbur-Ellis Company		Davbreak	Gallatin Vallev Seed	
Alpine	Rogers Brothers Seed		7	Company	
	Company		Delsey	Rogers NK Seed Company	~
Alsweet III	Asgrow Seed Company		Dew	Asgrow Seed Company	
Applause	Nunhems Zaden B.V.		Dignity	Crites-Moscow Growers,	
Arctic	Pure Line Seeds, Inc.			Inc.	
Arise	Asgrow Seed Company		Dinos	Asgrow Seed Company	

(*) No limit to the number of generations of certified seed beyond breeders seed.

TITLE 5 (NO. OF GEN.)		Y (3)	Y (3)	Y (3)
APPLICANT	Asgrow Seed Company Asgrow Seed Company Gallatin Valley Seed Company Rogers Brothers Seed Company Rogers NK Seed Company Crites-Moscow Growers,		NESTEC S.A. Asgrow Seed Company Ardie G. Gustafson, Seedsman Asgrow Seed Company Musser Seed Company Inc. Asgrow Seed Company Asgrow Seed Company Rogers NK Seed Company	Cebeco Zaden B.V. L. D. Maffei Seed Company, Inc. Rogers Brothers Seed Company W. Brotherton Seed Company, Inc. Asgrow Seed Company L. D. Maffei Seed Company, Inc.
KIND VARIETY	Goal Goya Headliner Honey Pod HP758A Image	Impala Irby Scotch June Jupiter	Karl-Evert Klos Kosta Krilla Lacy Lady Leah Magnus Mariner	Maxi MC-201 Mendota Menuet MF-502
TITLE 5 (NO. OF GEN.)				
APPLICANT	Del Monte Corporation	row See ers Bro Company latin V Company Company e Line		Rogers Brothers Seed Company Wisconsin Crop Improvement Association Asgrow Seed Company Gallatin Valley Seed Company Rogers Brothers Seed Company
KIND VARIETY	PEA DMC 50-02 DMC 50-04 DMC 50-05 DMC 50-21 DMC 50-26 DMC 50-27 DMC 50-60 DMC 50-60		Elegance Encore Envy Epic Everett Filly Flair Fridgit	Frontier Gain Galasweet Genie

(*) No limit to the number of generations of certified seed beyond breeders seed.

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TITLE 5 (NO. OF GEN.)	Y (3)		т (3)	
T. (1)	NESTEC S.A. Crites-Moscow Growers, Inc. Cebeco Zaden B.V. Rogers NK Seed Company Cebeco Zaden B.V. Asgrow Seed Company Rogers Brothers Seed Company	.a s .a .a .a .a	Cebeco Zaden B.V. Rogers NK Seed Company Rogers Brothers Seed Company Rogers NK Seed Company Company Rogers NK Seed Company Crites-Moscow Growers, Inc.	Gallatin Valley Seed Company Pure Line Seeds, Inc. Gallatin Valley Seed Company
KIND	Reco Regal 36 Renata Revolution Ricardo Saber Salvo	Scamp Scepter Sentry Shield Snappy	н	Stringless Sugar Snap Style Sugar Daddy SugarAnn SugarBon SugarRae SugarRee
TITLE 5 (NO. OF GEN.)	(3)		<u> </u>	
NO IG	×		∀	¥ (1
TITLE (NO. 6		Company Rogers Brothers Seed Company Asgrow Seed Company Wilbur-Ellis Company W. Brotherton Seed	Zaden B.V. Zaden B.V. Brothers Seed Seed Company Seed Company NK Seed Company Seed Company Seed Company Seed Company	

(*) No limit to the number of generations of certified seed beyond breeders seed.

TITLE 5 (NO. OF GEN.)	¥ (3)	Y (3)	¥ (3)	Y (3)	Y (3)	Y (3)	Y (3)	Y (3)	Y (3)	Y (3)	Y (3)	Y (3)	¥ (3)	
APPLICANT	Florida Agricultural	Experiment Station University of Georgia Research	Foundation, Inc. University of Georgia Research	Foundation, Inc. Agratech Seeds Inc. James T. Keel	Kenneth E. Hughes Florida Agricultural Experiment Station	North Carolina Agricultural Research Service			North Carolina Agricultural Research Service	State of Israel/Ministry of	Florida Agricultural Experiment Station, University of	Florida Agricultural Experiment Station, University of	ia Agr erimen	Rogers Seed Company Nestle S.A.
KIND VARIETY	PEANUT Andru 93	Georgia Browne	Georgia Runner	GK-7 K-29	KH20 Marc I	NC 10C	NC 7	NC 9	NC-V11	Shosh	Southern Runner	SunOleic 95R	VA-C 92R PEPPER	90-3083 Alpha II
TITLE 5 (NO. OF GEN.)		¥ (*)					N	N					Y (4)	Y (3)
APPLICANT	Crites-Moscow Growers,	Inc. Pure Line Seeds, Inc. Pure Line Seeds, Inc.	Pure Line Seeds, Inc. Pure Line Seeds, Inc. Rogers Brothers Seed	Gallatin Valley Seed Company	Crites-Moscow Growers Inc. Svalof AB	Musser Seed Company, Inc. Pure Line Seeds, Inc.	Rogers NK Seed Company Rogers Brothers Seed Company	Rogers NK Seed Company Asgrow Seed Company Asgrow Seed Company	ll Sou pbell Resea	n Valley any Seed Comr	Seed herto	Asgrow Seed Company Wilbur-Ellis Company Asgrow Seed Company	Terramax Corporation, Canada	J. Ashley Darden
VARIETY		Burst Up	Sundance Sunfire Sunset	SugarMel	superscout SV Victoria	Sweet Snap Tahoe	Tasman Tempter	Top Pod Treat Trek	Tremont Scotch			Utrillo Valgreen Vulcan		

(*) No limit to the number of generations of certified seed beyond breeders seed.

TITLE 5 (NO. OF GEN.)		X (1)	•	Y (2) Y (2) Y (2)
TI APPLICANT	Pharm ed Com ee Bur oany Dill	Musser Seed Company, Inc. Jennie Catherine Brush Agway, Inc. Hollar Seed Company; Geo. Perry and Sons Harris Moran Seed Company	—	Ameri-Can Pedigreed Seed Company University of Idaho Ameri-Can Pedigreed Seed Company University of Idaho University of Idaho
KIND VARIETY	PRIMROSE, EVENING Merlin PUMPKIN Big Moon Bushkin Dill's Atlantic Giant	Goldilocks Happy Little Boo Lumina RADISH Belle Glade	Red Baron Red King Ruby Snow Belle RADISH, FODDER Adagio	RAPE A112 Aspen Bingo Bridger Cascade
TITLE 5 (NO. OF GEN.)		*		
T APPLICANT	DNA Plant Technology Corporation Petoseed Company, Inc. Del Monte Corporation	Texas Agricultural Experiment Station Northrup King Company Brinker Orsetti Seed Company, Inc. Ferry-Morse Seed Company Ferry-Morse Seed Company Tommy Bolack	Sunseeds Company Frank Garcia, Jr. Petoseed Company, Inc. Texas Agricultural Experiment Station DNA Plant Technology Corporation Campbell Soup Company, Campbell Institute for Research and	S&G Seeds B.V.
KIND VARIETY	PEPPER Bell-Sweet Capistrano DMC 56-02 DMC 56-04 DMC 56-52 DMC 56-53 DMC 56-53	Hidalgo Jupiter Loribelle Merced Ole	ima B d Sav nora M Ver mbel- gi-Sw acini	PHLOX, ANNUAL Palona Carmine Palona Deep Rose Palona Deep Salmon Palona Light Salmon Palona White Palona White Constable

(*) No limit to the number of generations of certified seed beyond breeders seed.

TITLE 5 (NO. OF GEN.)	Y (3)	Y (3)		Y (3) Y (3)	Y (3)	Y (3)	Y (3)	
TI APPLICANT	Rice Researchers, Inc. California Cooperative Rice Research	Foundation, Inc. California Cooperative Rice Research Foundation, Inc. California Cooperative		n, inc. Drier and Inc. Drier and	Inc. Inc. mpany mpany	tive	Foundation, Inc. California Cooperative Y Rice Research Foundation, Inc. N. F. Davis Drier and Y	Elevator, Inc. mitomo Chemical Company, Ltd. rms of Texas Company rms of Texas Company ceTec Seed Inc. (Farms of Texas
KIND	RICE KRM-2 L-203	M-103 M-203	M-204	NFD 108 NFD 109	RRI-105 RRI-7530 RT-A1001 RT-A1002	S-101	S-301 S2-Calpearl	Sumirice II V4716 V7713 V7817
TITLE 5 (NO. OF GEN.)	Y (2)	Y (2)	* * * * ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° °		20000 4 K K K K K		Y (*)	X (3) X (3)
APPLICANT	Inc. and	שיר ב	Svalof AB University of Idaho Cargill Incorporated Cargill Incorporated	Svalof AB University of Idaho Canola, Inc.	inc. Inc. Y of Idah	earch Seeds, earch Seeds,	The end	N. F. Davis Drier and Elevator, Inc. Farms of Texas Company Hisparroz, S.A. Mitsubishi Kasei Corporation, Mitsubishi Rice Researchers, Inc.
KIND VARIETY	RAPE Celebra Ceres	Cobra Crystal Delta Glacier	Global Humus IMC 01 IMC 129 IMC 144	0) T M	Liradonna Printol Rebel Topas Viking	REED CANARYGRASS Palaton Venture RICE Amvlo 17	or	Calpearl CB-801 Donana Hareyaka KR4

(*) No limit to the number of generations of certified seed beyond breeders seed.

TITLE 5 (NO. OF GEN.)						Y (3)	(3) (3) (3) (3) (4) (4)	¥ (3)
T APPLICANT	L. Daehnfeldt, Inc. Snow Brand Seed Company Ltd. Florida Agricultural Experiment Station	Snow Brand Seed Company Ltd. Snow Brand Seed	Texas Agricultural Experiment Station Pure-Seed Testing,	D.J. van der Have B.V. Pure-Seed Testing, Inc. Pure-Seed Testing,	Pure-Seed Testing, Inc. International Seeds, Inc. The O. M. Scott and Sons Company	International Seeds, Inc. KWS-AG Willamette Seed Company, Inc.	Barenbrug Holland B.V. Barenbrug Holland B.V. Barenbrug Holland B.V. Barenbrug Holland B.V. E. F. Burlingham and Sons	D.J. van der Have B.V. Pure-Seed Testing, Inc.
KIND VARIETY	RYEGRASS, ANNUAL RustMaster Sakura-Wase Surrey	Tachimasari Tachiwase	TAM 90 TT-80	Urbana WA-77 RYEGRASS, PERENNIAL 246	2DF 856 Accolade	All*Star Allaire Amazon	Barclay Barrage Barry Belle	Birdie II
TITLE 5 (NO. OF GEN.)	Y (1)		Y (3)	Y (1)	Y (2)	Y (2)	Y (3)	
	r and cal	ָרָה אָרָה אָר	τ 1	ng, Inc.	B.V.	ain nd Lment	ed ent ion Ltd. rral and Experiment	B.V.
APPLICANT	N. F. Davis Drier an Elevator, Inc. Mitsubishi Chemical Corporation and Mitsubishi	Pure-Seed Testing, Inc.	יום מז	International Seeds, Inc. Pure-Seed Testing, Inc. L. Daehnfeldt, Inc.	Mommersteeg International B.V Willamette Seed Company, Inc. Dunns Seed and Grain Ltd., U.K.	Dunns Seed and Grain Ltd., U.K. Mississippi Agricultural and Forestry Experiment	א ליים א ליים א	Seed Inc. Lonal

^(*) No limit to the number of generations of certified seed beyond breeders seed.

T APPLICANT	International Seeds, Inc. NK Lawn and Garden Company Pure-Seed Testing,	Α	GmbH. Saatzucht Steinach GmbH. Pure-Seed Testing,	ree	Inc. Pure-Seed Testing, Inc.	Mommersteeg International B.V. Lofts Seed, Inc. Pure-Seed Testing,	Inc. Agriculture Service Corporation	Inc.	<pre>D.J. van der Have B.V. International Seeds, Inc. Pure-Seed Testing, Inc.</pre>	Lofts Seed, Inc. Pickseed West Inc. Pure-Seed Testing, Inc.
KIND VARIETY	RYEGRASS, PERENNIAL Gator Goalie Jazz	Lindsay Loretta	Lorina Manhattan II	Mondial	Omega II	Ovation Palmer Pebble Beach	Pennant	Pleasure Prelude Premier	Ranger Regal Regency	Repell Riviera Saturn
TITLE 5 (NO. OF GEN.)	Pickseed West Inc. Pickseed West Inc. Willamette Seed Company, Inc. The O. M. Scott and	Sons Company Mommersteeg International B.V. Pure-Seed Testing,	Inc. Pure-Seed Testing, Inc. Pure-Seed Testing,	Inc. Pure-Seed Testing, Inc. Pure-Seed Testing,	Inc. Mommersteeg International B.V.	International Seeds, Inc. R. H. Bailey Seed, Inc.	Pickseed West Inc. Pickseed West Inc. NK Lawn and Garden	International Seeds, Inc. Pure-Seed Testing,	Cebeco Zaden B.V. Mommersteeg International B.V. Pickseed West Inc.	Pickseed West Inc. Snow Brand Seed Company Ltd.
KIND VARIETY	RYEGRASS, PERENNIAL Blazer Blazer II Caliente Calypso	Caravelle Charger	Citation II Commander	Competitor	Crown	Cutless	Dasher Dasher II Delray	Dillon Dimension	Elka Fantoom Fiesta	Fiesta II Friend

(*) No limit to the number of generations of certified seed beyond breeders seed.

TITLE 5 (NO. OF APPLICANT GEN.)	SeedTec International, Y (3)	SeedTec International, Y (3)	SeedTec International,	SeedTec International,	SeedTec International, Y (3)	SeedTec International, Y (3)		SeedTec International, Inc.		Montana Agricultural Y (2)	tation	New Mexico Crop Y (3)	Aggoriation		Sesaco Corporation			Sesaco Corporation			Holden's Foundation	Seeds, Inc.		International, Inc.		International, Inc.		International, Inc.	Pioneer Hi-Bred	Dioneer Hi-Bred	International, Inc.
KIND	SAFFLOWER S-518	S-541	S-553	S-555	S-710	S-730		S-742	SAINFOIN	Remont		Renumex		SESAME	Sesaco 2A	Sesaco 3	Sesaco 4	aco	SORGHUM	A8087C	HP150		PH227		PH232		PH256		PH257	DHORS	000114
TITLE 5 (NO. OF GEN.)				(3)				Y (3)	Y (2)				*\ \			Y (*)			X (*)			Y (1)			Y (*)		X (*)		Y (3)	V (3)	
APPLICANT		Seed Research of	Seed Research of	KWS-AG		International Seeds,	Inc.	New Zealand Agriseeds Ltd.	Lofts Seed, Inc.		a	Cal/West Seeds	Cal/west seeds Begearch and	-	Institute, Inc.	Research and	Development	Institute, Inc.	Research and		Institute, Inc.	Research and		Institute, Inc.	Montana Agricultural	Experiment Station	Montana Agricultural		SeedTec International,	Spediec International	
KIND VARIETY	RYEGRASS, PERENNIAL Seville	SR 4000	SR 4100	Stallion	Tara Tara Trimmor	Vantage		Yatsyn 1	Yorktown II	SAFFLOWER	AG 1029	C/W 88-OL	C/W-4440 Contonnial			Montola 2001			Montola-2000			Morlin			MT 3697		Oker		S-501	5-517	1

^(*) No limit to the number of generations of certified seed beyond breeders seed.

TITLE 5 (NO. OF APPLICANT GEN.)	Pioneer Hi-Bred	International, Inc. Pioneer Hi-Bred	International, Inc.	International, Inc.	Pioneer Hi-Bred International, Inc.		International, Inc.	Northrup King Company		Pioneer Hi-Bred	International, Inc.		International, Inc.	rioneer ni-bred International, Inc.		International, Inc.		International, Inc.		International, Inc.	Northrup King Company	International Inc		International, Inc.		Latham Seed Company	Pioneer Hi-Bred -	International, Inc.	Pioneer Hi-Bred	International, Inc.		Corporation, Seeds Division	
KIND	SORGHUM PHB349	PHB429	CCNana	70 4011	PHB82	PHB86	B145	R159	SOYBEAN	0877	((1082	1282	1	1677		1981		2180	()	2400 2480		2877		293	29725K	2981		3081	(31/2		
APPLICANT GEN.)	Pioneer Hi-Bred	International, Inc. Pioneer Hi-Bred	International, Inc.	International, Inc.	rioneer ni-bred International, Inc.		International, Inc. Pioneer Hi-Bred	International, Inc.				Dianger Hi-Paga	Figures Al-Bred International, Inc.		International, Inc.		International, Inc.		International, Inc. Pioneer Hi-Bred	rioneer nibred		International, Inc.		International, Inc.		International, Inc.		International, Inc.		International, Inc.			International, Inc.
KIND VARIETY	SORGHUM PH289	PH308	PH309	DH310		PH328	PH333		PH352	חייי	Fnoos	PH356	0	PH410		FH449	OLCAHO	FIRE / 3	PHA331	1	PHA349		PHA429		PHA432		PHA82	Sound	Furoo	DHR079		PHB331	

(*) No limit to the number of generations of certified seed beyond breeders seed.

(*) No limit to the number of generations of certified seed beyond breeders seed.

TITLE 5 (NO. OF	GEN.)			•	· ·		·		•		•		•		•		•		•		•		•		•				•		•		•		•		•		•		•
		7	ad Inc		nal, Inc		nal, Inc	pd	lal, Inc		lal, Inc		al, Inc		al, Inc	D	lal, Inc	p	al, Inc.	p	al, Inc.	ਰੂ	al, Inc	g	al, Inc		al, Inc.		al, Inc.		al, Inc		al, Inc		al, Inc		al, Inc.	,	al, Inc	ב ב	
E	TAN	*	•	Hi-Bred	International	Pioneer Hi-Bred	~ 1	: Hi-Bred		Hi-Bred	International,	Pioneer Hi-Bred		Hi-Bred	International,	. Hi-Bred	International,	Pioneer Hi-Bred	International,	Pioneer Hi-Bred	International,	Pioneer Hi-Bred	International	Hi-Bred	International,	Pioneer Hi-Bred	International,	Pioneer Hi-Bred	International	Pioneer Hi-Bred	International	Pioneer Hi-Bred	International	Hi-Bred	International	Pioneer Hi-Bred	International	Hi-Bre	International,	neer Hi-Bred International	דוומרדסוו
יסד זממ ג	AFFLICANT		rioneer	Pioneer	Inte	Pionee	Inte	Pioneer	Inte	Pioneer	Inte	Pioneer	Inte	Pioneer	Inte	Pioneer	Inte	Pioneer	Inte	Pioneer	Inte	Pioneer	Inte	Pioneer	Inte	Pioneer	Inte	Pioneer	Inte	Pioneer	Inte	Pioneer	Inte	Pioneer	Inte	Pioneer	Inte	Pioneer Hi-Bred	Inte	Ploneer Hl-Bred Internationa	7111
7 H 3 T 4 G 5 V H 3 T 4 C 5 V H 3 T 5 V H	KIEII	Z	T	62		81		91		92	(93	•	94		02		11		41		42		43		51	,	61		71	1	91		01	1	21	,	31	Ţ	75	
KIND	74 ×	SOYBEAN		93(938		936		939		939		939		94(94.		947		947		944		945		946	(947		946		950		952		953		נטע	
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TITLE 5 (NO. OF	3		Inc.		Inc.		Inc.		Inc.		Inc.		Inc.		Inc.		Inc.		Inc.		Inc.		Inc.		Inc.		Inc.		Inc.		Inc.		Inc.		Inc.		Inc.		rnc.	Tnc	
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-NAD	Chin	ov Hilbrod	Ы	Pioneer Hi-Bred	International,	Pioneer Hi-Bred	International	Pioneer Hi-Bred	International,	Ploneer Hl-Bred	International,	Floneer H1-Bred	International,	Floneer H1-Bred	International	Pioneer Hi-Bred	International	Pioneer Hi-Bred	International,	Ploneer H1-Bred	International,	Ploneer Hl-Bred	International,	Floneer H1-Bred	International,	Pioneer Hi-Bred	International	Pioneer Hi-Bred	International	Ploneer Hl-Bred	International,	Ploneer Hl-Bred	International,	neer ni-bred International.	 						
TNAOT. TODA	17 3 34	Dionogra	uI	Pione	uI	Pione	ui .	Pione	ri	Plone	uI Lio	Flone	uT E	Flone	uT .	Pione	ui	Pione	uI	Pione	uI	Pione	ui	Pione	다	Flone	u I	Plone	uT - c	Plone	III	Pione	uH	Pione _	uT . c	Plone	In	Plone	בון הייטיים	allor 4	
VARTETY		EAN	1	9241		9251	C L	9252		1/76	0770	7170	0000	2773		1826		9292	(9293		9301		9302		202	7000	4204	1100	7211	0,00	9312	()	9331	7 00	9341	0 0	7347	0251	Tool	
KIND		SOYBEAN		5		UN.		יירע		,,	0	11	C	, 1	(1		J1								, 1															

(*) No limit to the number of generations of certified seed beyond breeders seed.

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GEN.)

(*) No limit to the number of generations of certified seed beyond breeders seed.

KIND VARIETY	APPLICANT	TITLE 5 (NO. OF GEN.)	KIND	APPLICANT	TITLE 5 (NO. OF GEN.)
SOYBEAN A4539 A4539 A4595 A4997 A5149 A5308 A5403 A5560 A5885	Asgrow Seed Company		SOYBEAN AP 230 AP 2324 AP 240 AP 240 AP 250 AP 3023 AP 3132 AP 3132 AP 350 AP 3577 AP 3977 AP 4321	Agripro Seeds, Inc.	
A5939 A5979 A5980 A6242	X X X X X X X X X X X X X X X X X X X		()	p King Comp p King Comp ate Univers	Y (3) Y (3)
A6297 A6381 A6520 A6785 A6961	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7		Ardir Avery	Foundation, Inc. Pioneer Hi-Bred International, Inc. Curators of the University of	Y (3)
A7372 A7986 Agassiz Alpha Amcor		Y (3) Y (3)	B095 B117 B152 B203 B236 B335 Bedford	Northrup King Company Aississippi	Y (3)
AP 10 AP 120 AP 1650 AP 1776 AP 200 AP 2021 AP 2190 AP 225C			Beeson 80 Bell Bellatti-R-77-84 Bert Birch	Forestry Experiment Purdue University Agricultural Experiment Station University of Illinois Louis Bellatti Minnesota Agricultural Experiment Station Illinois Foundation Seeds, Inc.	Y (3) Y (3) Y (3) Y (2)

(*) No limit to the number of generations of certified seed beyond breeders seed.

TITLE 5 (NO. OF GEN.)	Y (*)		I (3)		¥ (3)		X (3)	X (3)	Y (3)	Y (1)	(3)	_	Y (3)	Υ (3)				
TI ()	Ohio Agricultural Research and Development Center,	Illinois Agricultural Experiment Station	Onio Agricultural Research and Development Center, Ohio Agricultural	Research and Development Center	Polyt cute a rsity	King King	King		King King	King 1lier-	A. Smith	a a	Maryland Agricultural Experiment Station	_	Callahan Enterprises,	Callahan Enterprises, Inc.	Callahan Enterprises, Inc. Callahan Enterprises,	Inc.
KIND VARIETY	SOYBEAN Century 84	Chamberlain	Chapman		Chesapeake		Coker 355 Coker 368	Coker 393 Coker 425	Coker 485 Coker 627	Coker 686 Collier	7 3 5 5	Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z	Corsica	Crawford	CS20	CS24	CS31 CS38	
TITLE 5 (NO. OF GEN.)	(3)	(3)	(3)	(3)	(3)	(3)								(3)	(3)	(2)	(3)	
HZ.	×	×	×	×	×	×								×	K	×	×	
TI (N	Curators of the Y University of Missouri	ina ural	Research Service Purdue University, Y Indiana	e and	X	riment Station riculture and	Home Expe	Ziller Seed Company, Inc.	Ziller Seed Company, Inc.	Ziller Seed Company, Inc.	Ziller Seed Company,	Ziller Seed Company, Inc.	Louisiana Agricultural	cultural	ultural Station	a	sity	Experiment Station

^(*) No limit to the number of generations of certified seed beyond breeders seed.

TITLE 5 (NO. OF	GEN.)	Y (3)						Y (3)															Y (3)	Y (2)			Y (3)					
	APPLICANT	Curators of the University of	Missouri	V. R. Seeds, Inc.	Delta and Pine Land	Delta and Pine Land		Delta and Pine Land	Delta and Pine Land	Company	Delta and Pine Land	Delta and Pine Land) ; ; ; ,	Delta and Pine Land	-	Delta and Pine Land		Delta and Pine Land Company	Delta and Pine Land	_	Delta and Pine Land	Company	Kansas Agricultural Experiment Station		Research	Foundation, Inc.	Kansas Agricultural Experiment Station	Delta and Pine Land		Delta and Pine Land	Company Delta and Pine Land	Company
KIND	VARIETY	Delsoy 4900			Deltapine 105	Deltapine 246		Deltapine 345	Deltapine 415	ı	Deltapine 417	Deltanine 497		Deltapine 506		Deltapine 566		Deltapine 675	Deltapine 726	4	Deltapine 878		Desoto	Doles			Douglas	DP 3553		DP 3570	DP 3588	
TITLE 5 (NO. OF	GEN.)		Y (3)																			X (1)	Y (3)	Y (*)		Y (3)		Y (3)		`	(c) 1	
	APPLICANT	Callahan Enterprises, Inc.	Iowa Agriculture and	Home Economics	Experiment Station	Plant	Plant	DEKALB Genetics	DEKALB Plant Genetics	DEKALB Plant Genetics	DeKalb-Pfizer Genetics	Corporation	DEKALB Plant Genetics	DEKALB Genetics	-24		DENALB Flant Genetics	DEKALB Genetics Corporation	DeKalb-Pfizer Genetics	Genetic	DEKALB Plant Genetics	Milburn Farms, Inc.	Minnesota Agricultural Experiment Station	Minnesota Agricultural	Experiment Station	Curators of the	University of Missouri	Curators of the	University of	Missouri Guates of the	University of	Missouri

(*) No limit to the number of generations of certified seed beyond breeders seed.

TLE 5 O. OF GEN.)	(2)	(3)	(3)		,	(3)			Y (3) Y (3)	¥ (3)
TITLE (NO. GEN GEN	Dairyland Seed Y Company, Inc. Dairyland Seed	Company, Inc. V. R. Seeds, Inc. Ohio Agricultural Research and	3 2 2	Ur. E. E. Hartwig, USDA Minnesota Agricultural Y	Experiment Station FFR Cooperative FFR Cooperative FFR Cooperative	FFR Cooperative FFR Cooperative FFR Cooperative FFR Cooperative	FFR Cooperative FFR Cooperative FFR Cooperative		al Center, Inc.	Soybean Research Foundation, Inc. Minnesota Agricultural Experiment Station
KIND VARIETY	SOYBEAN DSR-352	Duke Edison	Elgin 87	EPPS Faribault	FFR 224 FFR 253 FFR 299			FFR 595 FFR 646 FFR 668 FFR 695	Flyer GK-67	GL 2250 Glenwood
TITLE 5 (NO. OF GEN.)					Y (2)	Y (2)		Y (2)		Y (2)
APPLICANT GEN.)	Delta and Pine Land Company	mpany and Pine mpany and Pine	Delta and Pine Land Company Delta and Pine Land	Company Delta and Pine Land Company	, Y	, Y	Seed Y Seed Y		Dairyland Seed Company, Inc. Dairyland Seed Company, Inc.	sed Inc.

^(*) No limit to the number of generations of certified seed beyond breeders seed.

TITLE 5 (NO. OF	GEN.)	s Y (3)	,)	Y (3)															
	APPLICANT	University of Illinois Iowa Agriculture and		Home Economics Experiment Station Curators of the	University of Missouri Jacob Hartz Seed							Company, Inc. Jacob Hartz Seed							
	VARIETY	SOYBEAN Hamilton Hardin	Harper 87	Hartwig	Hartz 5164	Hartz 5171	Hartz 5252	Hartz 5370	Hartz 6130	Hartz 6200	Hartz 6372	Hartz 6383	Hartz 6383R	Hartz 6385	Hartz 6686	Hartz 7110			
KIND		SOY																	
TITLE 5 (NO. OF	GEN.)	Υ (3)	, Y (3)	Y (2)	Y (2)			Y (3)										Y (3)	
TITLE (NO. OF	APPLICANT GEN.)		Center, Y (lopment Seeds,	Agripro Seeds, Inc. Agripro Seeds, Inc.	Research Y	Soybean Research	Jacob Hartz Seed				Company, Inc. Jacob Hartz Seed	Company, Inc. Jacob Hartz Seed	Company, Inc. Jacob Hartz Seed		Inc. ricultural Y nt Station	
TITLE (NO. OF		Agricultural Y esearch and	nter, Y (nter	nter, Y (Lopment Seeds,	Seeds,	Research Y	Soybean Research	Jacob Hartz Seed								Inc. ricultural Y nt Station	

^(*) No limit to the number of generations of certified seed beyond breeders seed.

TITLE 5 (NO. OF GEN.)						X (1)							Y (3)	Y (3)
T ()	Helena Chemical Company, dba	HyPerformer Seed Helena Chemical	HyPerformer Seed Company	Helena Chemical Company HyPerformer Seed Company		Stanford Seed Company Virginia Polytechnic Institute and State		Foundation, Inc. The Lubrizol Corporation	The Lubrizol Corporation	The Lubrizol Corporation The Lubrizol	The Lubrizol Corporation The Lubrizol		University of Illinois North Carolina Agricultural	Experiment Station Nixon Seed Company and L. Krietemeyer
KIND VARIETY	SOYBEAN HSC 591	HSC 623		HSC 741 HSC B2J	HSC Baldwin	HT5203 Hutcheson	HY 798	J-112	J-231	J-72 J-8287	J-8389	J82	Jack Johnston	K-77
TITLE 5 (NO. OF GEN.)	Υ (3)		Y (3)	Y (2)		Y (2)	Y (3)	Y (3)	¥ (3)					
APPLICANT	Jacob Hartz Seed Company, Inc.			Company, Inc. University of Georgia Research Foundation, Inc.	Identity Seed and Grain Company	Ohio Agricultural Research and Development Center,	Ohio Agricultural Research and Development Center	Ohio Agricultural Research and Development Center	Soybean Research Foundation, Inc.	Seeds, Seeds, Seeds,	Agripro Seeds, Inc. Agripro Seeds, Inc. Agripro Seeds, Inc.	0)	Growmark, Inc. Growmark, Inc. Growmark, Inc.	Growmark, Inc. Growmark, Inc.
KIND VARIETY	SOYBEAN Hartz 9190	Hartz 922	Hartz 936X	Haskell	Hawkson	Hayes	Hobbit	Hobbit 87	Hobson	(A (A W) t	HP 4800 HS 220 HS 235 HS 2455	100	HS 2821 HS 302 HS 321	m m

(*) No limit to the number of generations of certified seed beyond breeders seed.

KIND		TITLE 5 KIND	Θ		TITLE 5
VARIETY	APPLICANT		VARIETY	APPLICANT	GEN.)
SOYBEAN K87	King Agro Inc.	ć	SOYBEAN Leflore		Y (3)
Kasota	Minnesota Agricultural Experiment Station	¥ (3)		Agricultural and Forestry Experiment	
Kato	Minnesota Agricultural Experiment Station	Y (3)	Leslie	Minnesota Agricultural Experiment Station	. Y (3)
Keller	Purdue University Agricultural	Y (3)	LS301	Iowa Agriculture and Home Economics	
TOO ON THE PARTY OF THE PARTY O	Experiment Station	(3)	Minne	Experiment Station	
DO CALLED	Home Economics		Manokin	- 14	Y (3)
KG20	King Grain, Inc.		Marcus	Iowa Agriculture and	Y (3)
KG30				Home Economics Experiment Station	,
KG70	Grain,		Maxcy	South Carolina	Y (2)
Kosuzu	Tohoku National			m	
	Agricultural Experiment Station,		McNair 710	Experiment Station Northrup King Company	Y (3)
KS4390	Kansas Agricultural	Y (3)	McNair 770	n	Y (3)
KS5292	\neg	Y (3)		Agricultural	
Kunitz	ersity of	Y (2)	Minnatto		Y (2)
L1771	O'Lakes,			Experiment Station	
L2330 1933	O'Lakes,		Mitchell 410		
L2333 L4104	Land O'Lakes, inc. Land O'Lakes, Inc.		Mitchell 450 NattoKing K86	Northrup King Company King Agro Inc.	
L4106	Land O'Lakes, Inc.		Nebsoy	Nebraska Agricultural	Y (3)
14207	O'Lakes,		Oakland	Iowa Agriculture and	Y (3)
L4303	O'Lakes,			Home Economics	
L4404 L4503	Land O'Lakes, inc. Land O'Lakes, inc.		Ozzie	Experiment station Minnesota Agricultural	Y (3)
L4504				Experiment Station	•
Lakota	Iowa Agriculture and Home Economics	Y (3)	Parker	Minnesota Agricultural Experiment Station	Y (3)
Lambert	Experiment Station Minnesota Agricultural	¥ (3)	Pearl		Y (3)
	Experiment Station			Research Service	

^(*) No limit to the number of generations of certified seed beyond breeders seed.

TITLE 5 (NO. OF GEN.)	Y (3)																											
APPLICANT	Ohio Agricultural Research and Development Center		Corporation The Lubrizol Corporation	Inc	King,	Northrup King Company	King	Northrup King Company Northrup King Company	King	Northrup King Company Northrup King Company	King	Northrup King Company	King	King	King	King	King	Northrup King Company	King	King	King	King	King	King	King	King	King	Northrup King Company
KIND VARIETY	Ripley	iverside 202	Riverside 303C	RS 2330	000	S06-57 S07-80	-60	\$09-95 \$12-22	14-6	S15-50 S17-18	0 0	S19-90		1-9	3-0	3-1	S24-24	, C	\$25-15	S2596	\$26-06	S27-10	S28-01	S28-18	S29-11	9-	9-	830-06
១៤ ១																												
LITLE 5 (NO. OF GEN.)	Y (3)	Y (3)	Y (3)	Y (3)	Y (3)						Y (3)											Y (3)			Y (3)			
APPLICANT GEN.)	≯			ricultural Y (×	Research and Development Center	Soybean Research	Foundation, Inc. Sovbean Research	Foundation, Inc.	Soybean Research Foundation, Inc.	ity of Nebraska Y	and SEA, USDA BSF AG Research	Northrup King Company	King	King	King	Northrup King Company		King	King	King	sity Y (Agricultural	Experiment Station		Research and	Development Center,	

(*) No limit to the number of generations of certified seed beyond breeders seed.

TITLE 5	GEN.)		X (*)	Y (3)	Y (3)	(3)		Y (3)	Y (3)	Y (3) Y (3)	Y (3)		X (3)	
	APPLICANT	Helena Chemical Company Prairie Seed Company,	Ohio Agricultural Research and Development Center	Mississippi Agricultural and Forestry Experiment	Ohio Agricultural Research and Development Center,	Helena Chemical Company Minnesota Agricultural	Experiment Station Minnesota Agricultural Experiment Station	Iowa Agriculture and Home Economics Experiment Station	Kansas Agricultural Experiment Station		Ohio Agricultural Research and Development Center,		University of Illinois Soybean Research Foundation, Inc.	Soybean Research Foundation, Inc.
KIND	VARIETY	SOYBEAN Sampson Sanalona	Sandusky	Sharkey	Sherman	Shiloh	Simpson	Sloan	Sparks	Spartan Spencer	Sprite	Sprite 87	SRF 101	SRF 205
TITLE 5 (NO. OF	GEN.)							X (*)						
	APPLICANT	Northrup King Company Northrup King Company Northrup King Company Northrup King Company	King King King	King King King	King King King	King King King	King King	King King King	King King			King King		King King
KIND	VARIETY	SOYBEAN S30-31 S30-41 S31-33 S33-32	33-4 34-1 35-3	36-3 38-8 39-1	39-4 39-9 39-9	40-4 42-3 42-3	42-5 42-5 42-6	43-3 44-7 45-0	46-448-8	52-2 53-3 57-1 59-1	59-6 61-1 61-8	62-6 64-2 66-9	69-9	74-4 83-3

(*) No limit to the number of generations of certified seed beyond breeders seed.

TITLE 5 (NO. OF GEN.)		χ (3)	X (*)			Y (3)			Y (3)		Y (3)	,				X (3)		Y (3)	•			Y (3)		(3)			Y (*)			Y (3)	
T. (1)		Tennessee Agricultural Experiment Station	Northrup King Company	Ohio Agricultural	Development Center,	Iowa Agriculture and	Experiment Station	Biolechnica Adriculture, Inc.	Iowa Agriculture and	Home Economics	Iowa Agriculture and	Home Economics	Experiment	E. I. du Pont de	Nemours and Company	Iowa Agriculture and	HOME ECONOMICS Experiment Station	Purdue University	Agricultural -	Experiment Station	Helena Chemical Company	Purdue University	Agricultural	Experiment Station	Agricultural	Research Service	Ohio Agricultural	Research and	Development Center,	Michigan State	University
KIND VARIETY	SOYBEAN TK 89	T.N 4-86	TS250	Vertex		Vickery		Victor	Vinton		Vinton 81			W20		Weber		Wells II			Wilstar /90	Winchester		Sec. O	ν 3 3 3 4		Zane		Spolice	Hy-Blu	
TITLE 5 (NO. OF GEN.)	Y (3)	Y (3)		Y (3)								1 Y (*)					x (3)	Y (3)	,		Y (3)		Y (3)			Y (3)		Y (3)	*		
APPLICANT	Soybean Research	Foundation, inc. Soybean Research	Foundation, Inc.	Soybean Research		Cooperative, Inc.	Cooperative, Inc.	Southern States Cooperative Inc.	Helena Chemical	Company Scientific Seed		Minnesota Agricultural	Experiment Station	Helena Chemical	Company	Agripro Seeds, inc.	Terral-Norris seed		Company, Inc.	٠,	Company, inc. Terral-Norris Seed	Company, Inc.		Company, Inc.	Company, Inc.		Company, Inc.	Terral-Norris Seed	Company, Inc.	University	
KIND	SOYBEAN SRF 250	SRF 350P		(*)SRF 450P	SS 390	700		o To	Starr	† X		Sturdy		Sumter	(rerra-vig 505	Terra-Vig 553		Terra-Vig 5555	Terra-Vig 606	1	Terra-Vig 616	Horra-Wig 6700		Terra-Vig 717		Terra-Vig 808	0 2 2 2 2		

(*) No limit to the number of generations of certified seed beyond breeders seed.

TITLE 5 (NO. OF GEN.)		(1) (2) (3) (4) (1)	, ,	2 * * * * * *	(*) K (*)		Y (3)	Y (3)	Y (3)	Y (3)	Y (3)					
APPLICANT	Northrup King Company K. Sahin, Zaden B.V., and Dr. Ir. E. Sahin	Northrup King Company Northrup King Company Northrup King Company Northrup King Company	King King King	Northrup King Company Northrup King Company Northrup King Company	p King p	Seed F	Speight Seed Farms, Inc.	Speight Seed Farms, Inc.	Speight Seed Farms, Inc.	Speight Seed Farms, Inc.	Speight Seed Farms, Inc.	Dol Monto	Monte Corporat		nc.	Clause S.A. Ferry-Morse Seed Company
KIND	SUNFLOWER SS405B Sunspot	TOBACCO Coker 176 Coker 206 Coker 371 Gold Coker 51	K317 K326 K340 K346	K394		G-10	n L	Speight G-52	G -	Speight G-70	Speight-G-80	TOMATO 71-72	71-75			Apex 1000
TITLE 5 (NO. OF GEN.)	*			(1)												
H —	> 1			, ×												
T APPLICANT	pshire cultural riment Station Seed Company,	Inc. Charles Tateosian Wendy Lou Jones Swan Health Farms and Cattle Company,	Inc. Curran L. Garrett	erican Takii, Inc. Y	<pre>F. K. Suzuki International, Inc.</pre>	Walter K. Moss		Mr. Kobert Stagı Interstate Seed	Company Interstate Seed	Interstate Seed	Interstate Seed	Company Pioneer Hi-Bred	International, Inc. Pioneer Hi-Bred	International, Inc. Pioneer Hi-Bred	International, Inc.	International, Inc. Pioneer Hi-Bred International, Inc.

(*) No limit to the number of generations of certified seed beyond breeders seed.

APPLICANT	TITLE 5 (NO. OF GEN.)	KIND VARIETY	APPLICANT	TITLE 5 (NO. OF GEN.)
Walter Baxter Seed		TOMATO Liberator	Ferry-Morse Seed	
Frances B. Chesser		Micro-Tom	Florida Agricultural Experiment Station	
Company		Moran 3053		
		Mountain Gold	North Carolina	
Sunseeds Company			Agricultural	
Sunseeds Company North Carolina		MURRIETA II	Research Service Harris Moran Seed	
Agricultural			Company	
Experiment Station		Mystro	Sunseeds Company	
Ferry-Morse Seed		NC 1C	North Carolina	
Company			Agricultural	
Campbell Soup Company,		C Z	Research Service	
for Research and			Agricultural	
Harris Moran Seed			Research Service	
Company		NC 50-7	North Carolina	
DNA Plant Technology			Agricultural	
Corporation			Experiment Station	
DNA Plant Technology		NC 8276	North Carolina	
Corporation				
Campbell Soup Company,			Research Service	
campoell institute for Research and		NC 8288	NOFUN CALOLLNA Agricultural	
Campbell Soup Company,			Research Service	
Campbell Institute		NC 84173	North Carolina	
for Research and				
Ferry-Morse Seed			Research Service	
Company		Ohio 7983	Ohio Agricultural	
Florida Agricultural			Research and	
Experiment Station			Development	
Florida Agricultural		Ohio 8243	Dr. Stanley Z. Berry	
Experiment Station			and The Ohio State	
Clause S.A.				
Florida Agricultural	X (*)	Orion	Harris Moran Seed	
Experiment Station		(
Furdue University Adricultural		Pelly Peelment	Feroseed Company, Inc.	
Experiment Station				

(*) No limit to the number of generations of certified seed beyond breeders seed.

KIND		TITLE 5	KIND		TITLE 5
VARIETY	APPLICANT	GEN.)	VARIETY	APPLICANT	GEN.)
OTAMOT			10111111111111111111111111111111111111		
to	Petoseed Company Inc.			Trody C and Name	
Peto 343	Company,			iott	
Peto 460			Nutricale		
Peto 94C	Company,		Stan II	Resource Seeds, Inc.	
	Company.		1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -		
Promo	rse Seed		Triti-Gold 22	, a s)) , a	
	Company		Victoria	Resource Seeds, Inc.	
Ramsay	Campbell Soup Company,		TURNIP		
	Campbell Institute		Mosa	Zelder B.V.	
	for Research and		Royal Gem	Clause S.A.	
	Petoseed Company, Inc.		VERBENA, ANNUAL		
	Sunseeds Company		Romance Deeprose	S&G Seeds B.V.	
	Sunseeds Company		Romance Scarlet	Seeds	
Super Beefsteak	W. Atlee Burpee		Romance Scarlet Eyed	S&G Seeds B.V.	
			Romance White	S&G Seeds B.V.	
Sureset	Ferry-Morse Seed		VETCH, COMMON		
	Company		Cahaba White	Auburn University	
Tioga	õ			Agricultural	
	Campbell Institute			Experiment Station	
	for Research and		Nova II	Auburn University	
VF 9209	Ferry-Morse Seed			Agricultural	
				Experiment Station	
XP 5034			Vanguard	Auburn University	
Yuba	ω			Agricultural	
	Company			Experiment Station	
TREFOIL, BIRDSFOOT	ê		Vantage	Auburn University	
Carroll		Y (3)		Agricultural	
Fergus	University of Kentucky			Experiment Station	
IKIICADE			VINCA		
2700	Seeds,		Grape Cooler	Pan American Seed	
0000	Resource seeds, Inc.				
Blizzard	Drs. Fred C. and Nancy A. Elliott		Heat Wave White	John Bodger and Sons	
Buxom	Drg Fred C and Nancy		Tittle Colmon	Timaling of the Control of the Contr	
	A. Elliott			Jakata Seed Ametica,	
Enduro	Corporat	Y (1)	Parasol	The University of	
의 ()	Seeds,			cut	
Grace	Seeds		Passion	John Bodger and Sons	
OFIIKLIIS	kesource seeds, inc.			Company	

(*) No limit to the number of generations of certified seed beyond breeders seed.

TITLE 5 (NO. OF GEN.)	Y (*)			Y (3) Y (3)	Y (3)	Y (2) Y (2)	
APPLICANT	Louisiana Agricultural Experiment Station Florida Agricultural Experiment Station	Florida Agricultural Experiment Station Asgrow Seed Company Clause S.A. Northrup King Company W. Atlee Burpee	Coffey Seed Company Coffey Seed Company Pioneer Hi-Bred International, Inc.	Kansas Agricultural Experiment Station Kansas Agricultural Experiment Station Kansas Agricultural	Pioneer Hi-Bred International, Inc. Kansas Agricultural Experiment Station Kansas Agricultural Experiment Station	NDSU Research Foundation NDSU Research Foundation NDSU Research	Foundation NDSU Research Foundation Pioneer Hi-Bred International, Inc. International, Inc.
KIND VARIETY	WATERMELON Louisiana Sweet Mickylee	Minilee Perola Sun Gold Sunsweet Sweet Treat	Tastigold Yellow Crimson WHEAT, COMMON 2154	2157 2158 2163	2165 2172 2180	2369 2370 2371	2375 2385 2510
TITLE 5 (NO. OF GEN.)			Y (3)	Y (3)			
APPLICANT	Pan American Seed Company John Bodger and Sons Company The University of		4 D D D	Experiment Station, Department of Alabama Agricultural Experiment Station, Department of	Experiment Station Coffey Seed Company Musser Seed Company, Inc. Musser Seed Company, Inc.	Florida Agricultural Experiment Station Northrup King Company Coffey Seed Company Coffey Seed Company	Seed Seed a Agri erimen NK Se Seed
KIND VARIETY	VINCA Peppermint Cooler Pink Panther Tropicana Rluch	Tropicana Bright Eye Tropicana Pink Tropicana Rose	C	AU-Producer AU-Sweet Scarlet	Big Crimson Bush Charleston Gray Bush Jubilee	Charlee Charleston Elite Chubby Gray Crimson Diamond	Cutter 55 Domek Jubilee II Juliett Long Crimson

(*) No limit to the number of generations of certified seed beyond breeders seed.

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TITLE 5 (NO. OF GEN.)			Y (3)	Y (3)		X (3)	Y (3)									<u> </u>	x (3)	_	X (3)			(7)		Y (3)		(*)	Y (3)		Y (3)
APPLICANT	HybriTech Seed International, Inc.	Northrup King Company Northrup King Company	, , ,	International, Inc. HybriTech Seed	International, Inc.	HybriTech Seed International, Inc.		Northrup King Company	Northrup King Company	HybriTech Seed International Inc.		HybriTech Seed	International, Inc.		International, Inc.	King	Northrup King Company		Inivers	Agricultural Francisco	Object melle scarton	Onio Agricuturai	nesearch and Development Center,		Corp.	Western Plant Breeders, Inc.	Board of Regents,	University of	Nebraska and Agripro Seeds, Inc.
KIND VARIETY	WHEAT, COMMON 715	771 775	7805	7833	! () ()	7837	7846	812	814	817	. 822	830	1 (835		9227	7777 74000 74000	Abilene	Adder		(Adella		Admire		Apex 83	Arapahoe		Archer
TITLE 5 (NO. OF GEN.)		•		•				•													>	(3)	_		X (3)				
APPLICANT	Pioneer Hi-Bred International, Inc.	Pioneer Hi-Bred International, Inc.		Incernational, inc. Pioneer Hi-Bred	International, Inc.	Floneer Hl-Bred International, Inc.		Incernational, inc. Pioneer Hi-Bred	International, Inc.	Floneer Hi-Bred International, Inc.		International, Inc.		International, Inc.		International, Inc.	Figure nibled Inc. Inc.		International, Inc.	Pioneer Hi-Bred International Inc.		Sped Research	Division,	Agrigenetics Corp.	seed Research Inc.	The Lubrizol Corporation	The Lubrizol	Corporation Hybritech Seed	International, Inc.
KIND VARIETY	WHEAT, COMMON 2545	2548	2550	2551	Cuuc	n n	2553	2555	L	9967	2571		2580	8000	0707	2643		2684	- 0	2737W	4578	5409			3400 n 400	0407	5630	711	1 1

^(*) No limit to the number of generations of certified seed beyond breeders seed.

TITLE 5 (NO. OF GEN.)	Y (3)	Y (3)	_	Y (3)		Y (3)		Y (3)	V (3)			Y (2)		_	Y (3)			<u> </u>	<u> </u>	<u> </u>	(3) 4 K	-	V (3)	$X = \begin{pmatrix} 2 \\ 3 \end{pmatrix}$	Y (3)	Y (3)	(*) X	Y (3)	Y (3)	_	X (3)	X (3)
TI. (N		Seeds		Agripro Seeds, Inc.	Experiment Station		University of Nebraska and	of Nebraska	and SEA, USDA		Agrigenetics Corp.	ty	Agricultural Experiment Station	, Inc.	Regents,	University of	ska	King	King	King Company	Northrup King Company	Ming Company		King	King	King	King	King	King	King	King	Northrup King Company
KIND VARIETY	Cardinal	Cashup	Cavailei	Celtic	Centenniai	Centura		Centurk 78	7:+u+:Cu+u+:Cu	1		Clark		Clemens	Cody				7		Coker 9024	ם ר	Coker 9134	י ס			Coker 9766	Coker 9803	Coker 983	Coker 9835	0	Coker 9904
OF OF	<u></u>	_	<u></u>	_	_	_	_			۲)			()		3)		3)	3)		3)		(3)	(3)			
TLE O. GER	¥ (3	¥ (3	¥ (3		?) H	, ,		X (3		*)	•	(3)	_		_) Х) Х		_		•) () (-) И	ы			
TITLE 5 (NO. OF APPLICANT GEN.)	Kansas Agricultural Y (3	ltural Y (ltural Y (eriment Station	al r (Station		arms, Y (Inc. and BSF Ag Recearch	nt	Breeders, Inc.	eds Y (_	Development Center,	sity of Nebraska Y (and SEA, USDA	Agripro Seeds, Inc. Y (nc.	· ×	Idaho Agricultural Evneriment Station	Tacton	Sood Besearch INC. V /3	1	Agrigenetics Corp.		Breeders, Inc.	Agripro Seeds, Inc. Y (ity	Agricultural	Experiment Station	

(*) No limit to the number of generations of certified seed beyond breeders seed.

TITLE 5	GEN.)		Y (3)	Y (3)	1	(2) A		Y (3)	•		Y (3)		(C) A			Y (2)			Y (3)	•	Y (2)			Y (2)		Y (2)		Y (2)	,		Y (2)		Y (2)		
	APPLICANT		Florida Agricultural	Experiment Station Florida Agricultural	Experiment Station,	University of Michigan State	University	Ohio Agricultural	Research and	Development Center,	Seed Research	Division,	University of Georgia	Research	Foundation, Inc.	University of Georgia	Research	Foundation, Inc.	Utah Agricultural	Experiment Station	Cornell University	Agricultural	Experiment Station	Wisconsin Agricultural	Experiment Station	The Ohio State	Wilversicy Research Foundation	Ohio Agricultural	Research and	Development Center,	Ohio Agricultural	Development Center,	Ohio Agricultural	Research and Development Center,	
KIND	VARIETY	WHEAT, COMMON	Florida 303	Florida 304		Frankenmuth		Freedom			Frontiersman		GA-Dozier			GA-Stuckey			Garland		Geneva			Glacier		GR 855		GR860		**************************************	GR863		GR876		
TITLE 5 (NO. OF	GEN.)		Y (3)	_	(6) 4			Y (3)	<u> </u>	<u> </u>	K (3)	(2)	Y (3)	,	Y (3)		Y (3)			Y (3)		,	Y (3)	Y (3)		(*) ^		Y (3)				Y (3)		Y (3)	
	APPLICANT		Northrup King Company		Nebraska and	Agricultural	riment s	Seeds,	Seeds,		Donglace W Vind		Kansas Agricultural	Experiment Station	Colorado State	University	Ohio Agricultural	Research and	Development Center,	Seed Research	Division,	$\boldsymbol{\sigma}$	Adripro Seeds, Inc.	Onio Agricultural	Donolowent Conten	Western Plant	Breeders, Inc.		Cooperative, Inc.	_	FFR Cooperative	Purdue University	Agricultural Experiment Station	Florida Agricultural	Experiment Station
KIND	VARIETY	WHEAT, COMMON	Coker 9907		Compton	4	,	Dalen	Dancer Dolta Onoca	Discomban	DK-22S		Dodge	•	Duke		Dynasty))) (1	Encore		<u>,</u> ; ;	# T T T T T T T T T T T T T T T T T T T	Excel		Express	1	Feland	() () () ()	י ק ק	FFR 555W	Fillmore		Florida 302	

^(*) No limit to the number of generations of certified seed beyond breeders seed.

ы с ы z	(3)	(3)	(3)	(3)	(2)	(3)	(3)	(2)	(3)		(3)		(3)	(3)	(3)	(2)	,	(3)		(3)	(3)	, ,	(2)	(3)		(3)
TITLE 5 (NO. OF GEN.)	×	××	×	××	×	×	>+ >	н	×		×		×	×	×	×		×		×	×	>	н	×		₩
T APPLICANT (Kansas Agricultural Experiment Station Northrup King Company	seeds, -Pyle	Inc. Agripro Seeds, Inc.	Seeds,	r/		Agripro Seeds, Inc.	Minnesoca Agricultural Experiment Station	Agripro Seeds, Inc.	Idaho Agricultural	Wisconsin Agricultural	Experiment Station	Agripro Seeds, Inc. Bichardson Seeds Inc	Sogetal, Inc.		Experiment Station University of Georgia		Agripro Seeds, Inc.	HybriTech Seed International, Inc.	Agripro Seeds, Inc.			Agrirro biosciences Inc.	Minnesota Agricultural	Experiment Station	Agripro Seeds, Inc.
KIND	WHEAT, COMMON Karl 92 Klasic	Laredo	Lincoln	Longhorn Mac-1	Madison	Magnum	Mallard	Marsnall	Meggie	Meridian	Merrimac	;	Mesa	Mindoro	Minnpro	Morey	1	Mustang	Norak	Nordic	Norkan		Norlander	Norm		Norseman
N O 5	2)		(m) (m)		3)	((m	2)	3)	2)		3)	3)	3 3 3				(2)		(3)	(3)		ć	3) (2)			3)
TITLE 5 (NO. OF GEN.)	×		× ×	•	>>	- H	X) X	,) ×) X) Х) >>	1			×		×	У		,	××	-) X
H	er,		Ч		ц																					uc
APPLICANT	Ohio Agricultural Research and Development Center Purdue University.	Indiana	Goertzen Seed Research South Dakota	Agricultural Experiment Station	Seed	Agripro Seeds, Inc.	Michigan State	University Sogetal, Inc.	Cornell University	Agricultural	ity of	Seeds,	Agripro Seeds, Inc.	Kansas Agricultural	Experiment Station	Furdue University Agricultural	Experiment Station Virginia Agricultural	•	Kansas Agricultural Experiment Station	South Dakota	Agricultural	מ	Agripro Seeds, Inc. Colorado State	University	The Andersons	Kansas Agricultural Experiment Station

(*) No limit to the number of generations of certified seed beyond breeders seed.

TITLE 5 (NO. OF GEN.)		Y (3)			Y (3)	X (3)	_			Y (3)		Y (3)	Y (3)	X (3)	Y (3)	Y (3)		Y (3)	,	Y (3)					Y (2)		Y (3)		Y (3)		(2)	x (3)				Y (3)	Y (3)	
APPLICANT		Agripro Seeds, Inc.	Illinois Agricultural	experiment station and USDA-ARS	Adripro Seeds, Inc.		Regent	University of	Nebraska and	Texas Agricultural	riment s		Seeds,	Seeds,	Agripro Seeds, Inc.	m	Inc.	Tainio Technology and		Plant Breeders 1, Inc.	Texas Agricultural	Experiment Station	Texas Agricultural	Experiment Station	Texas Agricultural	Experiment Station	Texas Agricultural	Experiment Station	Texas Agricultural	Experiment Station	Action Cooperator	Terral-Norris Seed			Company, Inc.	Agripro Seeds, Inc.	Agripro Seeds, Inc.	World Seeds, Inc.
KIND	WHEAT, COMMON	Sawyer	Scotty		Shiloh	Sierra	Siouxland			Siouxland 89	, ·		Southern Belle	Stallion		Sunstar II		Symphony		Syringa	TAM 107		TAM 108		TAM 109		TAM 202		TAM 300	- Famure E	Tolomer	Terral 1011		Terral 877		Thunderbird	Tomahawk	Tracey
TITLE 5 (NO. OF GEN.)		K (3)	K (3)	X (3)	Y (3)					Y (3)		Y (3)	Y (3)	Y (3)		Y (3)		Y (3)	Y (3)			Y (3)				Y (3)	Y (3)	•	X (3)				Y (3)	Y (*)		Y (3)		Y (3)
APPLICANT		Seeds,	Agithio Seeds, inc.	Agripro Seeds, Inc.	-	University of	Missouri		International, Inc.	Farmers Marketing	,	Seeds	Agripro Seeds, Inc.		International, Inc.			Agripro Seeds, Inc.	Board of Regents,	University of	Nebraska and	Board of Regents,	University of	Nebraska	\circ	Agripro Seeds, Inc.		Month Committee	North Carolina	Agricultural Research Service	Pioneer Hi-Bred	International, Inc.	Plant Breeders 1, Inc.	ia Agricultu	Experiment Station	Colorado State		Agripro Seeds, Inc.
KIND	WAEAL, COMMON	Ogallala	Patterson	Pecos	Pike			PL145		Poco rea		Fortion	Pontiac Pont	FOILY		FR2360		KAM	Kawnide		2 - 1 - 1	Kedland		0000 Shq	has 6232		Opposit	DOW	NO.		878		Salmon	Saluda		Sandy		Savannan

(*) No limit to the number of generations of certified seed beyond breeders seed.

TITLE 5	GEN.)		Y (3)			Y (3)				Y (3)	Y (3)		Y (3)	Y (3)		Y (3)		X (3)	X (*)				Y (3)		X (3)	K (3)		X (*)		X (*)		X (*)		X (*)		X (*)			
	APPLICANT		Northrup King Company	Western Plant	Breeders, Inc.	Farmers Marketing	. Corp.	Western Plant	Breeders, Inc.	Germain's, Inc.	Farmers Marketing		Farmers Marketing	Farmers Marketing	Corp.	Farmers Marketing			Western Plant	Breeders, Inc.	Western Plant	Breeders, Inc.	Farmers Marketing	,	Seeds,		Western Franc Breeders, Inc.		Breeders, Inc.	1.3	Breeders, Inc.	L	Breeders, Inc.	ш	Breeders, Inc.	u	Breeders, Inc.	T. M. Quinn	
UNIX	VARIETY	WHEAT, DURUM	Aldura	Aruba		Bravadur		Cortez		D-5003	Diavolo Duro		Duraking	Direx		Durostar		Fjord	Imperial		Kofa		Reva	•	Stockholm		Westbred 1000D	WestBred 803		WestBred 881		WestBred 883		WestBred Laker		WestBred Turbo		WHEAT, POLISH OK-77	K
TITLE 5	GEN.)		Y (3)	Y (3)	Y (3)	Y (3)	Y (3)						Y (2)	V (3)	X (3)			Y (3)	Y (3)	Y (3)	Y (3)	Y (2)		Y (3)		Y (3)	(*) ^				Y (3)		Y (*)		X (3)	_	¥ (3)	Y (3)	
T	APPLICANT		Agripro Seeds, Inc.	Agripro Seeds, Inc.	И	Agripro Seeds, Inc.	•	Experiment Station	T	Experiment Station	-	Breeders, Inc.	Kentucky Agricultural			University of	Nebraska and		Seeds,	eeds,	0,	Agric	Experiment Station		International, Inc.	u	Breeders, Inc.	Breeders, Inc.	بد	Breeders, Inc.	Western Plant	Breeders, Inc.	Western Plant	Breeders, Inc.	Н	Z	Agripro Seeds, Inc.	Colorado State University	

(*) No limit to the number of generations of certified seed beyond breeders seed.

APPLICANT

TITLE 5 (NO. OF GEN.)

Y (2)

University Research Foundation

The Ohio State

Y (2)

KIND

VARIETY

APPLICANT

WHEATGRASS

WHEAT, SPELT GR 900

VARIETY

KIND

NewHy

Pinwheel Rose ZINNIZ

Red Lollipop

USDA-ARS, Utah Agricultural Experiment Station,

W. Atlee Burpee

Company W. Atlee Burpee

Company

(*) No limit to the number of generations of certified seed beyond breeders seed.

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